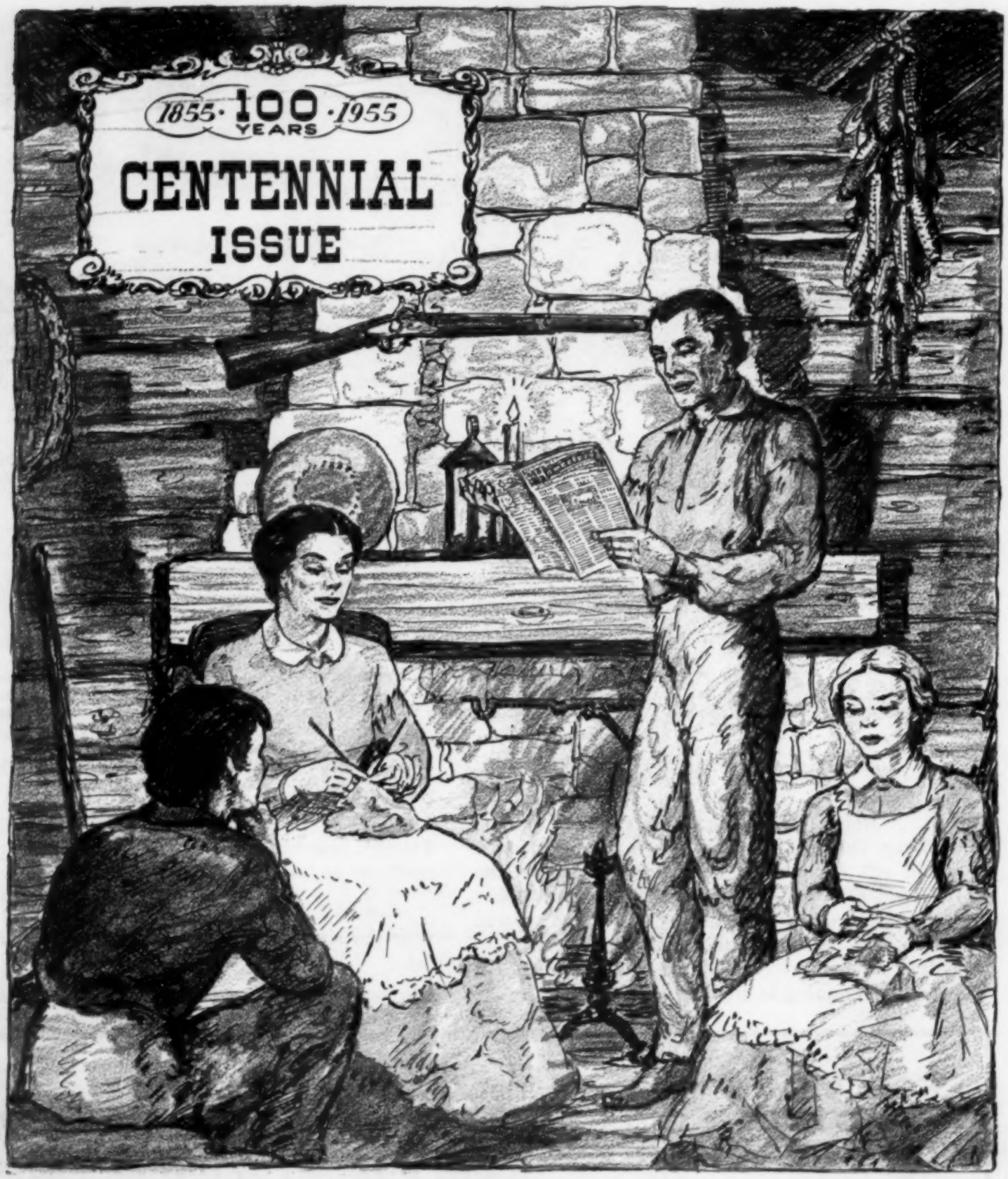
WALLACES' FARMER and IOWA HOMESTEAD

AUGUST 20, 1955

IOWA STATE FAIR • Aug. 27 – Sept. 5



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Firestone DEEP TREAD

PULLS BETTER . . . LASTS LONGER . . . COSTS LESS

No other tractor tire gives so much for so low a price.

A simple comparison between the Firestone "Deep Tread" and other tires in its price range will tell you why. You can easily see that the Firestone "Deep Tread" has more tread rubber for longer tire life . . . deeper curved and tapered bars and big powerful shoulders for maximum drawbar pull . . . and flared tread openings for positive cleaning in any soil condition.

You can save money and get more work done with the Firestone "Deep Tread" Tractor Tire. The price of the Firestone "Deep Tread" is only $41.95* plus tax, size 9-24. Other sizes are proportionately low.

Compare before you buy. Get the low price for your tire size at your nearby Firestone Dealer or Store.

*Exchange if your old tire is recappable. Prices subject to change.

FOR MORE TRACTION ON YOUR . . . TRUCK

. . OR CAR

ALWAYS BUY TIRES BUILT BY FIRESTONE, ORIGINATOR OF THE FIRST PRACTICAL PNEUMATIC TRACTOR TIRE

Enjoy the Voice of Firestone on radio or television every Monday evening over ABC

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WALLACES' FARMER AND IOWA HOMESTEAD, August 20, 1955 (Vol. 80, No. 16). Published first and third Saturdays of each month by the James M. Pierce Corporation, Des Moines, Iowa. Subscription price, one year for one dollar. Entered as second-class matter October 19, 1939, at the post office in Des Moines, Iowa, under the act of March 3, 1879. Copyright, 1955, by the James M. Pierce Corporation.

3817 Dozen Eggs

From 210 Birds In 10½ Months

Mrs. Sprunger feels that though good breeding is mighty important that even the most carefully bred birds cannot do the best job of producing eggs unless they are well fed. She has found, too, that a clean house and clean drinking water are a necessity. The drinking water for the Sprunger flocks is sanitized with MoorMan's Drinking Water Tablets and lice and mites are controlled with MoorMan's MoorMaFume.

"Producing eggs is a business operation with me, and I can tell you my feed cost to the fraction of a penny per dozen," says Mrs. Martin Sprunger, Adams Co., Indiana. "I'm always comparing my costs with those of my neighbors, too. That's why I've been using MoorMan's Poultry Mintrate for more than 12 years. I've found that combining MoorMan's Poultry Mintrate with our own home-grown grain not only gives me a low-cost ration, but more important, it produces well-developed, thrifty birds that are consistent high egg producers.

"Let's take the 210 birds I housed last year at exactly six months. They were a Leghorn type and at that time weighed about 4 lbs. During the next 10½ months they produced 45,808 eggs—a rate of 69%.

"Now I consider that a good rate of production for such a long period. But equally important to me was the cost. I figured my own corn at 2½c per pound, wheat and oats at 3c per pound. Also included in my feed cost is a charge for grit, MoorMan's Triple X to paint the house and MoorMaFume* Insecticide for the control of lice and mites. This gave me a total cost of $688.75, or 18c per dozen eggs. This included the feeding of 20 cockerels for the 10½ months, too.

"Actually, it amounted to 4.48 lbs. of feed per dozen eggs. Because I used our own grain with the Mintrate my total out-of-pocket cost was only $304.50."

MoorMan's Mintrate for Poultry is a highly concentrated blend of proteins, minerals and vitamins developed especially to keep laying hens at peak production. Mintrate will help your hens get more body-building and egg-making power out of your home-grown feeds by "unlocking" and making available more of the food and energy value nature puts into grain and forage.

That's why thousands of poultry raisers, like Mrs. Sprunger, are switching to MoorMan's Mintrate for Poultry. Your MoorMan Man will gladly show you how easy it is to build a high-energy ration made with your own feed and Mintrate—and step up egg production. If no MoorMan Man calls soon, write Moorman Mfg. Co., Dept. S58, Quincy, Ill.

"One reason my birds are so thrifty," says Mrs. Sprunger, "and such consistent producers is that they are started on MoorMan's CoxiCurb Mintrate for Starting Chicks. Feeding Mintrate and my own ground yellow corn gave me a total cost of $101.39 to bring 300 straight run chicks up to 12 weeks of age."

"During the first 8 weeks we use a ration of 200 pounds of our own ground yellow corn to 100 pounds of Chick Mintrate. At 8 weeks we change over to 300 pounds of corn to 100 pounds of Mintrate. My records show that by 12 weeks, when these birds weighed about 3 pounds, my average cost per pound of gain was only 11.2c."

MoorMan's*
Since 1885—70 Years of Friendly Service
MINTRATES, MINERALS and Parasite Control Products
*Trademark Reg. U. S. Pat. Off.

ENJOY MORE FURNACE BIRTHDAYS

Green Colonial gives you longer, trouble-free service

The extra bracing, heavier metal and superior workmanship that goes into the construction of every Green Colonial furnace means extra years of trouble-free service to you. A Green Colonial furnace actually weighs more than other furnaces . . . assuring a quieter, more dependable, smoother operating heating plant. And, this extra heavy construction includes built-in "fuel economy features" for longer low-cost operation.

Join the increasing thousands of mid-west families enjoying the extra advantages of a Green Colonial furnace such as:

- **Fuel saving up to 25%**
- **"Tailor-to-fit" installation for clean, even heat in every room**
- **Heavier construction, giving up to 12 extra years of trouble-free service**

See your local Green Colonial dealer for complete information on the many different Green Colonial oil-fired, gas-fired or coal-burning furnaces . . . or write for new illustrated literature.

Convenient Payment Plans

INSTALL NOW—PAY LATER

GREEN COLONIAL HEATING & COOLING

GREEN COLONIAL FURNACE CO. Des Moines, Iowa

This beats a flail for threshing grain. But not by very much. This ground hog thresher of 1831 is hand-cranked by two men and fed loose grain by a third. Left to right, Floyd T. Carter, Warren county, Illinois; Milo Mathews, Henry county, Iowa and J. B. Freeze, Delaware county, Iowa.

INSIDE STUFF

YOU DON'T have to wear whiskers or an old-fashioned dress to get in on the celebration of the centennial of Wallaces' Farmer and Iowa Homestead. Just read this issue.

IT'S THE BIGGEST issue —140 pages—in our history and a good one for you to keep. For the historical articles and also for guides to the Iowa State Fair August 27-September 5.

EVERY MEMBER of the Wallace-Homestead organization deserves credit for this issue. But some special award should go to the printers in the shop.

WITH LINOTYPE pots supplying extra heat, the temperature was up to 110 degrees or more on some of those hot days. And all the big fans could do was to bring in hot air from outside.

RUSSIAN VISITORS in the Corn Belt reminded me of the 1920's when agricultural scientists from Russia used to come over for frequent visits. This stopped around 1938 when Stalin "purged" his government of folks he didn't like.

IN WORLD WAR II, we warmed up to the Russians again and pictured them as heroes in battling Hitler. During the cold war, we switched back and acted as if all Russians had horns.

RECENT RUSSIAN visitors to Iowa didn't look like either heroes or devils. Just stocky fellows with some curiosity about corn and hog raising.

HOWARD HILL of the Iowa Farm Bureau is advocating more trade with Russia. He's quite right. We could trade wheat and pork for scarce metals.

UP UNTIL a short time ago, I thought of heart attacks as being all about the same kind. Now I know better. Heart attacks differ just as much among themselves as auto accidents.

WHEN YOU SAY "Jim was in an auto accident," you may mean that his car has a bent fender, that he skinned his nose or that he had his back broken and his lung punctured.

HEART ATTACKS are different too. Some kinds kill you; some kinds cripple you; some kinds just shake you up. I had the third kind the other day.

THE DOCTOR calls it a "cardiac spasm." No permanent injury to the heart, but some rest required to get it back in shape.

THAT'S WHY I did less work on this mammoth issue than I meant to, and why other editors did a lot more. Special credit goes to Managing Editor Lee Thompson, who put the whole thing together.

DONALD R. MURPHY.

WALLACES' FARMER AND IOWA HOMESTEAD
"GOOD FARMING, CLEAR THINKING, RIGHT LIVING"
(Volume 80—Number 16)
DANTE M. PIERCE, Publisher, 1920-1955
RICHARD S. PIERCE, Associate Publisher
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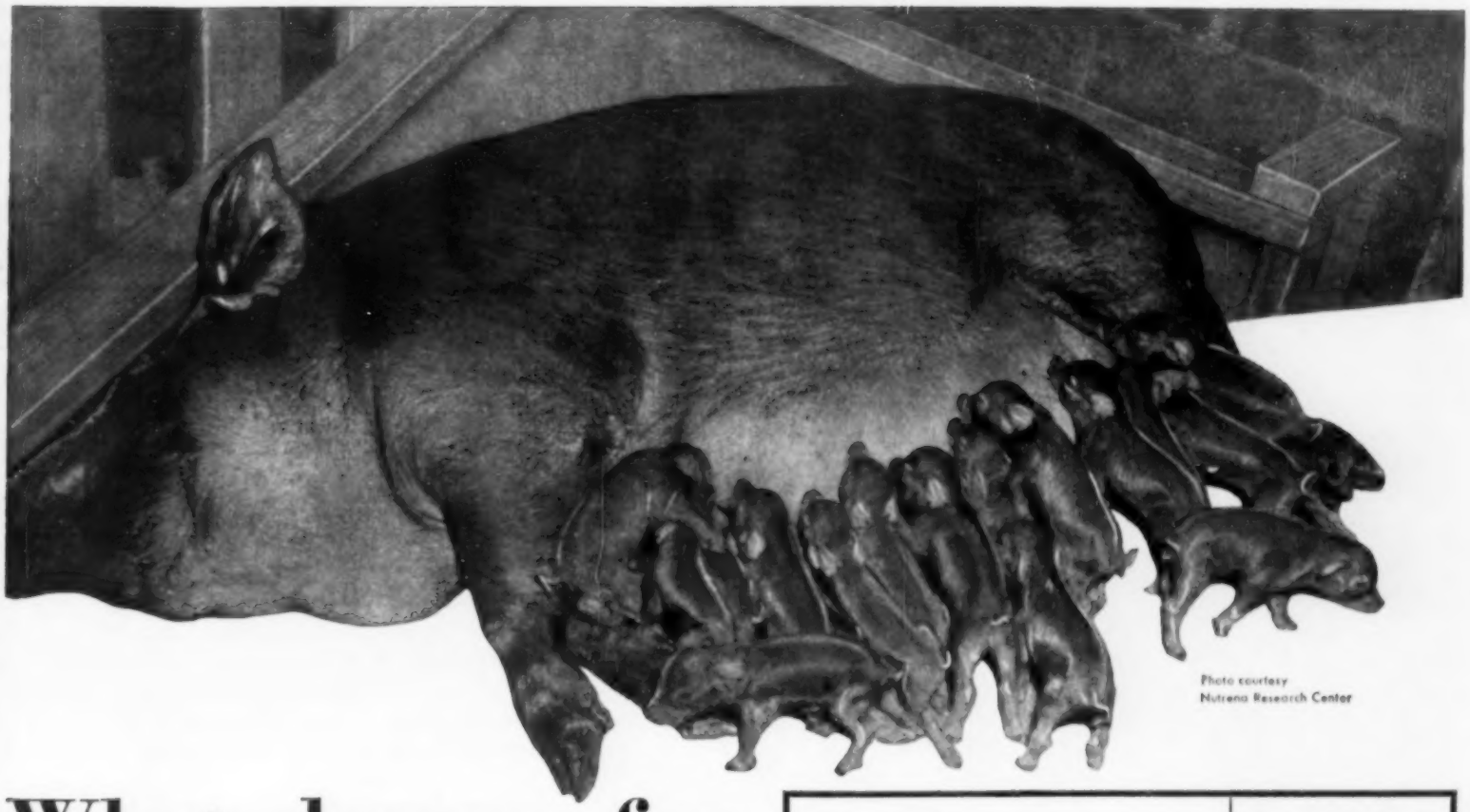


Photo courtesy
Nutrena Research Center

What chances for big fall litters?

GOOD, with special sow feeding plan that helped 288 hog raisers average 9.07 weaned pigs per sow last spring

288 Hog Raisers	**9.07** pigs per sow
Corn Belt Average	**6.96** pigs per sow
U.S. Average	**6.90** pigs per sow

How do you compare? **Here are figures on average pigs per litter for three different groups last spring. How did you compare? How will you make out this fall? Read how one group beat the Corn Belt average by 2.11 pigs per sow.**

Best advice you'll get on hogs right now is to go after big litters this fall. The prospective fall pig crop will be 18% over the 10-year average. That means it will be extra important to get big litters and save as many baby pigs as you possibly can.

So what are your chances for big litters at weaning time this fall?

If you do as well as one group of 288 Corn Belt hog raisers, your chances will be good.

These 288 Midwest hog farmers, subject of a recent poll, averaged 9.07 pigs weaned per sow last spring. That's 2.11 better than the Corn Belt average.

Henry F. Putzier of Litchfield, Minnesota, is typical of this group. He says, "I weaned 110 pigs from 10 sows, and my sows maintained their weight very well during lactation."

Henry F. Putzier

Of course, like Henry Putzier, all 288 are good managers. But they credit much of their success to a special kind of sow feeding program—including a powerful "motherhood supplement" especially designed to meet the critical needs of high-producing sows.

This special supplement is called Sow-30—a product of Nutrena research.

Dr. J. Wesley Nelson, head of the Nutrena Research Center, explains the importance of Sow-30 this way . . .

"Better breeding has produced a sow capable of farrowing big litters. But as her ability to carry big litters has increased, her nutritional needs have become more and more exact. Not just during gestation, but while she is nursing her larger litter as well.

Dr. J. Wesley Nelson

"Sow-30 meets these critical needs in three important ways:

"First, Sow-30 supplies a full 30% of the pig-building, milk-making proteins.

"Second, these proteins in Sow-30 are carefully selected and blended to furnish all the amino acid 'building blocks' known to be needed by the high-producing sow.

"And, third, Nutrena fortifies Sow-30 with generous levels of the 'pregnancy factors'—vitamins A, D and the B-Complex plus calcium, phosphorus and trace minerals."

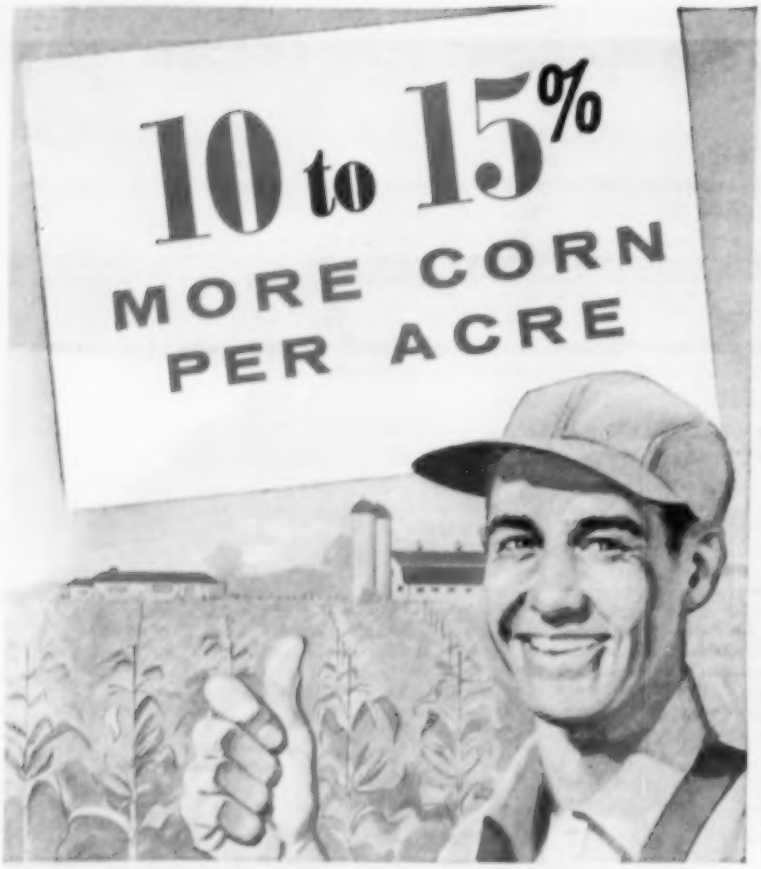
It only takes about 100 pounds of Sow-30 to balance the sow's ration all the way from breeding to farrowing.

Compared with the total feed needed to market a litter of pigs, that's just a drop in the bucket—but what a Mighty Drop!

As Ronald Galbraith of Gibson, Iowa, says, "No other investment in hog feeds will give me such handsome returns as Sow-30. I averaged 9.16 weaned pigs per sow from my 31 sows last spring."

So, if you're out to stay on top of the hog situation this fall, go after those extra pigs per sow. See your Nutrena dealer this week. Pick up the Nutrena Sow-30 you need to give your sows this economical big-litter help all the way to weaning.

This is the motherhood supplement that helped 288 hog raisers get 9.07 weaned pigs per sow last spring—2.11 more pigs than the Corn Belt average. Get *your* Sow-30 from your Nutrena Dealer this week (Adv.)



Possible For Any Farmer Planting

CROW'S PREMIUM

HYBRIDS ON GOOD SOIL

If you have corn land that normally grows 70 or more bushels of corn per acre, you can exceed the yield of any regular hybrid with CROW'S PREMIUM.

You should harvest 10 to 15% more corn per acre.

CROW'S PREMIUM is distinctively *superior* hybrid corn – bred to have *stronger resistance to diseases – stronger standability* in the field – greater capacity for making all the corn that good soil will produce.

Corn growers who have tested this corn in the same fields with other hybrids are now growing CROW'S Premium on larger acreages – making more money on their Corn Crop.

Ripens on green foliage – makes highest quality grain or silage.

See CROW'S dealer – Make your plans NOW for 1956 spring delivery.

All Crow's Hybrids are Film-Coated for dependable seed protection in poor growing weather.

Place your seed corn order NOW with Crow's dealer in your community. If you do not have a Crow's dealer near you and you are interested in selling corn yourself, write to Crow's Hybrid Corn Co., Milford, Illinois.

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MILFORD, ILLINOIS AND NEVADA, IOWA
World's largest producers of single cross seed corn

CROW'S HYBRID CORN COMPANY
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Please send FREE catalog, "CROW'S HYBRIDS"
Name_____
Address_____ R.F.D._____
( ) Check here if you would like to sell Crow's Hybrids

Last year I planted Crow's Premium Hybrids and made a yield of 125 bushels per acre—far exceeding any other corn I have ever planted. You can't go wrong planting Crow's Premium.

Murl Corwin,
Conrad, Iowa

• WALLACES' FARMER •
and Iowa Homestead

Good Farming—Clear Thinking—Right Living

1912 GRAND AVENUE DES MOINES, IOWA

Published the First and Third Saturdays of Every Month

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RAISE HOGS FOR PROFIT... FEED *Sargent* Minral Meal

Drive down any country road in the Midwest. You'll find many successful hog raisers who will tell you "Sargent **MINRAL MEAL** is the ONLY supplement for me. Sargent **MINRAL MEAL** and corn or oats is the most economical way for me to put a fast, profitable finish on my hogs."

You'll profit, too, feeding this popular hog supplement. Right now, when oats are your cheapest source of pork gain, you can profit all the more . . . by supplementing with Sargent **MINRAL MEAL.** It's the feed that's been feed-lot tested by successful hog raisers! It's OATS FOR SHOATS . . . with Sargent **MINRAL MEAL.** 100 pounds of Minral Meal will satisfactorily balance 40 bushels of oats. Stretch your feed dollar . . . stretch your profit margin . . . stretch your oats. **FEED** Sargent **MINRAL MEAL** . . . the pork profit producer!

Start now to put a fast, profitable finish on your hogs . . . with Sargent MINRAL MEAL. Here is a protein and mineral balancer, fortified with antibiotics, trace minerals and important vitamins, including B-12. Sargent MINRAL MEAL is an Automatic Balancer that can be self-fed without danger of over-consumption.

SARGENT PLANTS
DES MOINES, IOWA
Monmouth, Ill. Fremont, Nebr. Waverly, Mo. Algona, Iowa

SEE *Kewanee's* *NEW* PRODUCTS AT THE FAIR!

NEW MODEL 12 DISK

Model 12 KEWANEE DISK Cuts A Full 160"—4 rows

KEWANEE'S exclusive rigid-frame construction and fixed-angle gangs tear out corn roots, level rows, shred and cover stalks or stubble in one operation. KEWANEE'S WHEEL-MOUNTED DISKS are built of heavy 3 inch, 6 pound channel. See KEWANEE DISKS at the fair and check KEWANEE'S heavier channel. *Compare at the fair.*

NEW WHEEL-MOUNTED SPIKE-TOOTH HARROW

Now—Use All Your Power

Harrow from 27½' to 42' in one trip across a field. Most farmers have the tractor power to pull a 50% to 75% wider harrow than they now use. KEWANEE introduces the WHEEL-MOUNTED SPIKE-TOOTH HARROW to take advantage of the power you have. Available in five, six or seven sections. Your present sections are usable. *Compare at the fair.*

KEWANEE . . . Fastest Portable Farm Elevators Built

Model 300—307 Trailer Truck—exclusive Tri-Side Strut construction. See it at the fair. Compare KEWANEE'S top-quality construction to any other elevator. A KEWANEE ELEVATOR is your best buy in a farm elevator. *Compare at the fair.*

NEW

Perfect for elevating feed into self-feeder.

Use in place of tilting hopper. Main elevator is always in balance.

Loading trucks or wagons-eliminates back-breaking work of scooping.

WHEEL-MOUNTED

Self-Powered

HOPPER

101 Work-Saving Uses

Here's a low cost piece of farm machinery you'll find new uses for every day. It's well balanced, ruggedly constructed and easily portable. It's a work saver on any size farm. 2′ and 4′ extensions available for both horizontal and inclined legs.

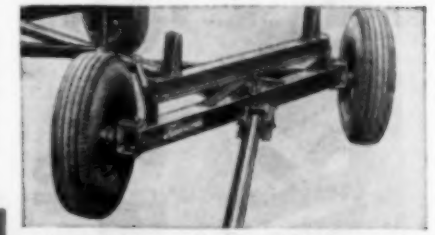
Top Quality Construction Throughout

Angle iron reinforced. Completely grain tight. No greasing or oiling of any moving part required. *Compare at the fair.*

NEW A FULL 5 TON WAGON GEAR

Now haul bigger loads without breakdowns; make better use of the power you have. This KEWANEE WAGON GEAR has undergone severe tests with 13,000 pound loads. Results: No failures. Buy a wagon gear wheel-mounted for a full 5 tons. Buy a KEWANEE. *Compare at the fair.*

Kewanee offers you 6-bolt wheels, heavy-duty rims, heavy-duty wheel discs that mount truck tires or heavy-duty implement tires.



72″ tread gives greater stability even with high loads. 72″ tread works safely and easily in row crop fields and over rough terrain.

Kewanee Puts Farming on Wheels.

Kewanee

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IOWA

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ALGONA..Taylor Implement Company
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ALTA.....Russell W. Peterson
AMES..Armstrong Tractor & Truck Co.
ARAWODA.....Nagel's
APLINGTON...Burgess Implement Co.
ATLANTIC.....Bethman Motor Company
AURELIA.....Howell Implement
AUSTINVILLE...Bode-Lindberg & Voss
AVOCA.....Avoca Implement Co.
BAGLEY.....Billland Implement Co.
BAYARD...Bayard Motor & Implement
BEDFORD..Wilson Implement & Auto
BELLE PLAINE.....Lee Kelly Co.
BELMOND...Falkenrath Implement Co.
BERNARD.....The H. & H. Company
BLAIRSTOWN.....Lee Kelly Co.
BLOOMFIELD.....Mihels Farm Supply
BOONE.....Peterson & Paulson
BROOKLYN...Richeson Imp. Store
BUENA VISTA...A. J. Nerring Imp.
BURLINGTON...Burlington Farm Mach. Corp.
CALAMUS.....Monroe Implement Co.
CANTRIL.....Cantril Implement Co.
CARROLL.....Nory Imp. Co.
CEDAR FALLS.....Al Mohnen & Sons Implement Co.
CEDAR RAPIDS...Hoppel & Sons Inc.
CENTERVILLE.....Norris Inc.
CHARITON.....D. L. Smith & Co.
CHARLES CITY..Adrion Implement Co.
CHELSEA.....Henry & Wiebbesch Imp. Co.
CHEROKEE.....Cherokee Implement Co.
CLARENCE...H. D. Kammann & Sons
CLARINDA.....Miller-Tomlinson Imp. Co.
CLARION.....H & N Implement Co.
CLEGHORN..Elmer Green Implement
CLIMBING HILL..James Implement Co.
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COLUMBUS JCT...Harbison & Smith
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EXIRA.....Beck Implement Co.
FAIRFIELD.....Goodin Implement Co.
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FOREST CITY.....M & N Motors
FORT DODGE...Kenney Imp. Co., Inc.
GARNAVILLO...Garnavillo Implement
GARNER.....Grish Implement Co.
GEORGE.....Klinkenberg Brothers
GLADBROOK.....Bates Equipment Co.
GLENWOOD.....Bellington Motors
GRAND JCT.....Fowler & Zeme
GREENE.....McRoberts Implement Co.
GREENFIELD..Wakefield Implement Co.
GRINNELL...Grinnell Implement Store
GRISWOLD.....Hakenkord & Wilson
GRUNDY CENTER...Heine Implement
GUTHRIE CENTER..Biglin Tractor Co.
HAMBURG.....Albert Implement Co.
HAMPTON.....Yoe Implements
HANLONTOWN...Hanlontown Imp. Co.
HARLAN.....Otto C. Nelson
HARWARDEN.....Nobbe Implement
HEDRICK.....Brown Implement Store
HENDERSON...Hendrix Implement Co.
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HULL.....Hull Implement Store
HUMBOLDT...Humboldt Implement Co.
HUMESTON...Exley Farm Equipment
HURLEY.....E. D. Noll Implement Co.
IDA GROVE.....Michaelsen & Sons
INDEPENDENCE...Mellin Farm Store
INDIANOLA..Kingsbury Implement Co.
INWOOD.....H. D. Moen & Son
IOWA CITY.....Olive Farm Equip. Co.
IOWA FALLS..H. M. & W. Imp. Co.
IRETON.....Poll & Schultz
JEFFERSON.....Forscher & Brown Tractor Co.
KALONA.....Farmer's Supply Sales
KANAWHA.....E. H. Nelson Impl. Co.
KEOKUK.....Van Ausdall Bros.
KEOSAUQUA...Meehin Implement Co.
KEOTA.....Haas & Greenler
KEYSTONE.....Davis Implement Co.
KINGSLEY...Pauls Farm Equipment
KLEMME.....Fred J. Arnold
KNOXVILLE...Hawkeye Farm Equip.
LACONA.....Firman Sloppenpur
LAKE PARK....Carl's Implement Co.
LAKE VIEW.....Shinbleck Equip. Co., Inc.
LAMONI.....Smith Implement Co.
LANOTTE.....Hom Implement Co.
LAPORTE CITY...Robert's Inc.
LAURENS.....Boyd's Farm Store
LAWARD.....Barker Farm Equip. Co.
LENOX..Barker Implement & Motor Co.
LEON.....Eaton Farm Store
LESTER.....Sean Repair
LETTS.....Weber & Hoefner
LINN GROVE.....Farmers Supply Co.
LITTLE CEDAR.....Johnson Garage
LOWDEN.....H. D. Kammann & Sons
LYTTON.....Williams Hardware
MADRID.....The Farm Supply Store
MALLARD.....Reinders Imp. & Hdwe.
MALVERN.....Salyers Implement Co.
MANCHESTER...Wendt & Littlebrigh
MANNING.....Bass Implement Co.
MARION..Garber-Birkey Implement
MAPLETON.....Ortner Implement Co.
MARGRETA.....Gerbeline Farm & Home Store
MARENGO.....Lee Kelly Co.
MARION.....Perry Smith
MARTENSDALE..C. F. Martens & Sons
MASON CITY..Mohels Farm Equipment
MASSENA.....Alfred Voss
MAYNARD.....Earl Fox
MEDIAPOLIS.....Burlington Farm Mach. Co.
MELBOURNE.....Wissmann Implement Store
MELVIN.....Dwenk Implement Co.
MILES..Nemmer's Imp. & Aps. Store
MONDAMIN..Mondamin Implement Co.
MONONA.....Nels Implement Co.
MOORES.....Drake Implement Co.
MONTEZUMA.....Johnston Motor Co.
MONTICELLO.....Monticello Imp. & Trk. Co.
MOORHEAD.....Griffiths Hardware
MORNING SUN...White Implement Co.
MT. AYR.....Roe Implement Co.
MT. PLEASANT.....Lloyd Peterson
MT. VERNON.....Barnes Implement Co.
MOVILLE.....W. L. Beebers Co.
MURRAY.....Kimball Implement Co.
MUSCATINE.....Lamp-Schmidt Co.
NASHUA.....Nashua Implement Co.
NEOLA.....Neola Farm Equipment
NEVADA..Bank & Piper Implement Co.
NEWELL.....Ernest Siewert
NEW HAMPTON.....A. R. Marks
NEWTON.....Newton Implement Co.
NORTHWOOD.....Johnson Imp. Co.
OAKLAND.....F. W. Neff & Sons
OCHEYEDAN...Wunderlich Brothers
OELWEIN.....Butler Coal Co.
OGDEN.....Exley Implement Co.
OLIN.....Hamilton Equip. Co.
OSAGE.....Kent Oswald Implement
ORANGE CITY..Gerdt Implement Co.
OSCEOLA.....Campbell Imp. Co.
OSKALOOSA.....Chas. C. Wickham
OTTUMWA.....Buchanan Imp. Co.
PACKWOOD.....Harold Dickey
PANORA.....Jimmy Dudley
PARKERSBURG..Heine Implement Co.
PATON.....Weigel Imp. & Farm Store
PAULLINA.....Johnson Farm Equip.
PELLA.....Pella Implement Store
PERRY.....Hanson Implement Co.
PILOT GROVE.....J. J. Hickling
PLEASANTVILLE...Warren Implement Co.
PRIMGHOKTAR..Andorval Farm Store
PORKERBY...Garber-Birkey Implement
PRINCETON.....H. E. Lund
RED OAK.....Peterson Motor Co.
REINBECK.....Carol E. Rehlander
RENWICK.....S. H. Kissore
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RINGSTED..Co-op Grain & Produce Co.
ROCK RAPIDS..George Holliday & Son
ROCK VALLEY...Wallenberg Imp. Co.
ROCKWELL CITY..Small's Implement
ROLFE.....Brothers Implement Co.
RUDD.....Larson & Collet Imp. Co.
SAC CITY.....Sac County Implement
ST. ANSGAR.....M. L. McKinley
SANBORN.....George C. Gotting
SCHALLER.....Schaller Imp. Co.
SCOTCH GROVE.....Bahner's Imp. & Parts Co.
SCRANTON..Jurgens Implement Co.
SHANNON CITY...Hankman Implement Co.
SHEFFIELD.....Coulter Implement Co.
SHELBY.....Kiesel Implement
SHELDON.....Schlabaud Equipment Co.
SHELLSBURG.....Hyde Implement Co.
SHENANDOAH..Miller Tractor & Sup.
SIBLEY.....Farm Equip. Co.
SIDNEY.....Sidney Truck & Tractor
SIGOURNEY..Nolte Farm Equipment
SIOUX CENTER..Nieuwsma & Kempers
SIOUX CITY..Batchelder's Farm Store
SIOUX RAPIDS..Farm Implement Co.
SLOAN.....Rus Fruetsche Implement
SMITHLAND.....Wells Implements
SPENCER.....Slovers Farm Equip. Co.
SPILLVILLE..Bulik Implement Store
SPIRIT LAKE...Weck Implement Co.
STORM LAKE...Larson Implement Co.
STORY CITY...Armstrong Tractor & Truck Co., Inc.
STUART..Wilson Farm Equipment Co.
SWEA CITY.....Linde Implement Co.
TIPTON.....Hostetler's Garage
THOMPSON.....Clark Meehan
TIPTON.....Harpman Implement Co.
TOLEDO.....Sons Motor Co.
TRACY.....Chenoweth Implement Co.
TRURO.....Truro Farm Equip. Co.
URBANA.....Urbana Feed Store
VAN METER..Van Meter Motor Co.
VILLISCA.....Lotts Implement Co.
VINTON.....Dynis Implement Co.
WALCOTT.....Ray Implement Co.
WAPELLO.....McNeil Brothers
WARNBURTON..Smart Implement Co.
WATERLOO.....Grossman Implement Co.
WAUKON.....Wilcox Implement
WEBSTER CITY.....Burt Hudson
WELLMAN.....Wade & Co., Inc.
WELLSBORO..Olson Implement Co.
WEST BEND.....Louis Schaefer, Jr.
WEST CHESTER.....Milliers Garage
WEST LIBERTY.....H. D. Cline Co.
WEST UNION...Pfister's Farm Store
WHITTEN.....H. R. Kenner
WILLIAMS..Williams Implement Co.
WILTON JCT.....J. H. Wacker & Co.
WINTERSET...Gray Truck & Imp. Co.
WYOMING..Wyoming Imp. & Trk. Co.
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EARLY GAINS ARE CHEAP GAINS

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The time to get your pigs headed for best market weights . . . is *right from the start.*

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Behind The News

"Wait and see" on farm prices

Administration leaders in Washington less worried than are farm leaders

How are administration men and farm leaders reacting to the July drop in farm prices? Will there be an attempt at milk controls? These and other questions in the news are discussed by the editor.

THE JULY decline brought the general level of farm prices to 84 percent of parity. That's the lowest since December, 1940. A month earlier, farm prices were 86 percent of parity.

Price declines reflected setbacks in prices of hogs, cattle, potatoes, apples and wheat. Meat animal prices lost over six percent during the month of July.

Reaction in Washington was somewhat varied as to the continued decline in farmers' prices. Farm leaders are much more concerned than are administration leaders.

* * * *

The Eisenhower administration has adopted a "wait and see" policy with regard to prospects that the farm surplus situation may grow worse this fall and winter.

Secretary of Agriculture Benson said farmers should not place too much importance on prices alone.

"It should be kept in mind" he said, ". . . that the heavy volume of marketings will sustain farmers' receipts from the sale of their products."

The Secretary apparently believes that a 10 percent increase in supplies, for example, will bring no more than a 10 percent decline in price of the product.

Economists, however, have pointed out that prices decline by a greater percent than supplies increase. Hogs are an example.

* * * *

"We are not disheartened by the hog situation," said True D. Morse, Benson's undersecretary of agriculture. He was speaking to meat industry leaders.

"For July thru December" he said, "hog slaughter will probably total 10 to 12 percent more than in the same period last year. Meanwhile beef and other meat products are expected to continue at about the same level as last year."

"No price collapse is expected" the undersecretary said, "altho hog prices will be lower." And hog raisers may have "no safety margin."

Morse indicated the Department will give "special attention" to increased use of pork and pork products in school lunch programs, etc. This was interpreted as meaning some pork products will be bought for distribution in school lunch and other progams.

Food stamp plans however are not given consideration as a means for getting food surpluses consumed, by Morse or any other officials of the Department of Agriculture.

* * * *

How do farm organization officials feel about farm price declines and farmers' prospects?

They see a lot of trouble ahead. Charles Shuman, President of the American Farm Bureau Federation, and Herschel Newsom of the National Grange advocate trade with Russia as a means to get rid of farm surpluses.

Schuman said that trade with Russia would help promote world peace and open up a new outlet for surplus American farm products.

Newsom said Americans would have to abandon their "emotional" opposition to trade with Russia.

* * * *

This whole question of government efforts to sell farm products abroad is a big issue in Washington.

The State Department opposes proposals to sell farm products abroad at cut-rate prices. It's said this would be dumping—a trade practice which this country and others have denounced.

But Benson is going to Europe to discuss the farm surplus disposal problem there with U.S. representatives and with foreign governments. His trip will take him to Great Britain, the Netherlands, Denmark, France, Italy and Switzerland.

* * * *

Now there's talk in Washington of marketing quotas for milk. Farm leaders gave some attention to milk controls in the latter part of the recent session of congress.

A house dairy sub-committee plans to hold hearings this fall and winter in milk producing areas including the Wisconsin-Minnesota area.

The committeemen want to know whether dairymen themselves favor controls. If the committee finds support there might be a drive in the next session of congress to put over quotas with 90 percent supports.

Heretofore the idea of controlling milk production has not made headway because critics have said it would be next to or completely impossible to control production.

* * * *

With the international situation showing signs of quieting down, the farm situation may get more public attention in the months ahead. Farmers' problems may be the number 1 issue when congress meets again in January.

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You can save an extra 4 to 8 bushels an acre according to Ag College tests*, by picking corn at the peak of its maturity . . . at a speed that suits field conditions exactly . . . with snapping rolls precision set for damp or dry corn.

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McCORMICK® 2-ME PICKER AND FARMALL® 300 or 400 TRACTOR

Now, crib corn that used to get away! Get extra harvest efficiency that boosts yields up to 8 bushels an acre—with this unrivaled picker-power team.

See how revolutionary Farmall Torque Amplifier drive lets you change speed on-the-go to rescue more ears in down or tangled patches. Feel the *instant* drawbar pull-boost, of up to 45 percent, that takes you through tough spots non-stop even with a 100-bushel load in tow! Match travel speed to crop conditions *exactly*, with two speeds in each gear, to save corn that others can't!

Clear slugs quickly to save time and corn waste due to clogging with new *completely* independent power take-off. See how the McCormick 2-ME takes and holds *precision* snapping roll adjustment that can add bushels to your yield. Hydraulic gatherer control, steerable divider and big husking beds are other corn-saving advantages.

McCormick No. 2-PR . . . two-row pull-type picker, with 10-roll husking bed, clean-husks 100-bushel-plus corn. It has a shelled corn saver . . . wide, rear-delivery elevator and other advantages of the 2-ME. The No. 1-PR is a one-row pull-type with 6-roll husking bed.

McCormick 34HM-20 . . . 2-row mounted picker, with in-line snapping and husking rolls, gives up to 20-acre-a-day capacity at low cost! You adjust snapping rolls instantly, on-the-go! Mounts on a Farmall 300 or 400. The 2C-10 is a one-row picker for Farmall 200.

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Iowa farmers give D-X the blue ribbons

Iowa farm folks call D-X *Lubricating* Gasolines "best in the show"—with their exclusive upper-cylinder lubricant and new all-time high in octane. These champions give you more of everything you want in gasoline. You get more power, more protection, more mileage with D-X—and at competitive prices.

And, you'll give your blue ribbon to D-X Motor Oils, fortified with our own secret blend of additives. There's a grade for every farm purpose, to give you top protection (at a low price).

Remember, all D-X Products are sold on our unconditional money-back guarantee of satisfaction. Ask your D-X Farm Serviceman about it. It's the champion of all guarantees!

D-X

D-X SUNRAY OIL COMPANY

VISIT WITH US DURING THE FAIR AND SAVE SOME REAL MONEY!!

Stop by the D-X Booth at the Fair—Meet your friends there, and we'd like to visit with you. We can save you some money at the same time! Our annual Pool Car Sale is under way with cash discounts for buying D-X Oils and Greases in quantity.

If you haven't already placed your D-X Pool Car order, we'll take it right at the fair. In addition to a substantial cash discount, you get guaranteed delivery, easy terms, guaranteed price protection and our *unconditional money-back guarantee of satisfaction.*

Relax and enjoy the show. That's what thousands of Iowa farm folks like to do at the Iowa State Fair grandstand shows.

Second century for

Iowa State Fair

THE Iowa State Fair starts its second century when the gates swing open August 27 for Iowa's 10-day annual outing.

And what an outing it will be, with all the favorite features of the good, "old-fashioned" kind of exposition which have made this America's greatest agricultural and livestock fair!

In many ways, this year's State Fair will be larger than any seen before. It will have more features for the entertainment of the public than any Iowa has ever seen.

The livestock show will be easily one of the big highlights for farm visitors. Officials estimate that there will be over 8,000 head of fine horses, cattle, swine and sheep on display, including some of the greatest show herds in the nation.

This year's show at Des Moines has been designated as the official National Show for both the Shorthorn and Polled Shorthorn breeds.

Iowa 4-H and FFA members will play a big part in the stock show again this year, with thousands of youngsters vying here for state championships as well as substantial cash awards.

But for the farm families, the livestock shows will be only a beginning among the many interesting things to see and do at the Iowa State Fair. There is the huge agricultural building with its corn show, small grain show, fruit and garden products show, and the conservation project.

Then there will be over 40 acres of the latest in farm machinery in Machinery Row, and the latest in home conveniences in the Varied Industries building. Officials say there is not a single prominent national manufacturer of farm equipment who will not have his machines on display at this year's fair . . . making this section almost worth a trip in itself.

Another popular feature will be the annual draft horse team pulling contests, open to the public free of charge. And still another will be the horseshoe pitching tournaments, in which one section is for farmers exclusively.

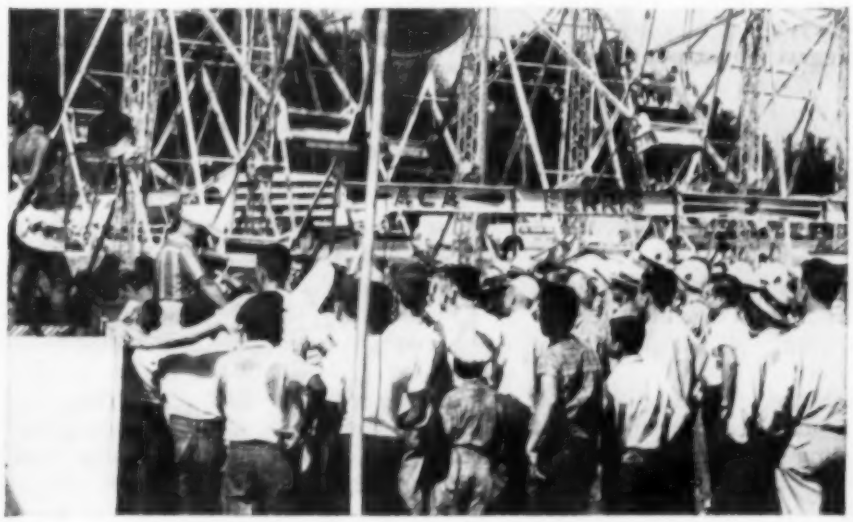
Women visitors, as usual, will have scores of features for their pleasure. There will be the annual sewing and fancy work show, the cooking, canning and baking show, the statewide flower show, and the annual garden clubs show.

For sheer entertainment, this year's State Fair program is the biggest ever planned.

Topping the list of grandstand events is the championship rodeo, starring Gene Autry, Gail Travis as TV's Annie Oakley, the famous Cass County Boys, and 150 cowboy contestants in the rodeo.

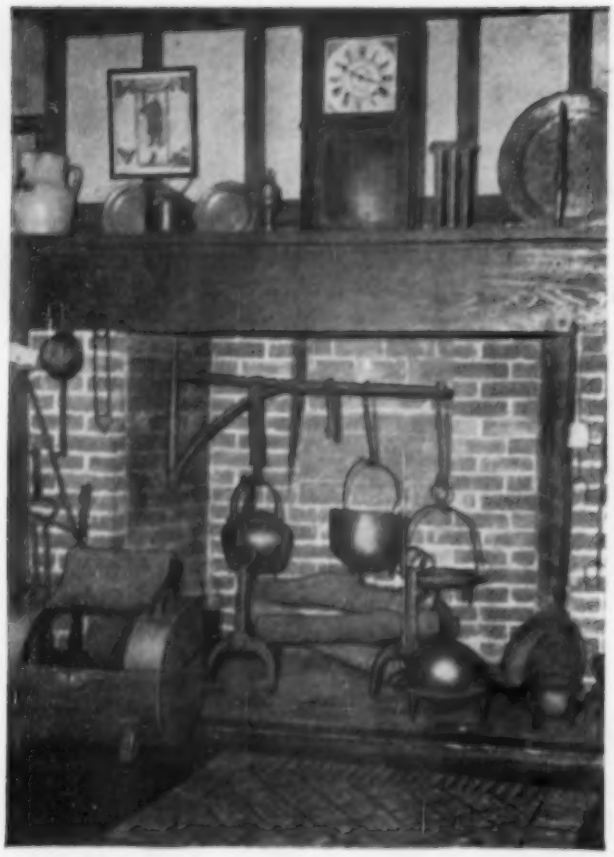
You can find a day-by-day schedule on page 123 of this issue to help you pick the days for your State Fair visit. You might want to check also the livestock judging schedule on page 56 and the article on "State Fair extras" on page 89.

As usual, the fair will open its 125 acre free camp grounds for those who want to camp, or want to bring their trailers along. The camp ground is a beautiful, wooded tract, with city water service, shower baths, stores, sanitary facilities, and street lights.



What would a State Fair be without a midway? At last year's State Fair, this show seemed to attract mostly men.

Even sheep get their faces washed! That seems to surprise Larry Lee Bell, Jasper county, Iowa, as he watches Clifford Knudson get sheep ready for showing.



Hot Kitchens

Many farm women remember what summer cooking was like in the days before the gas and electric range. But Great-Grandma had it much tougher.

To bake, she needed a good bed of coals in the fireplace. To do any kind of cooking, she had to shield her face with one hand and stir with the other.

Look at the early farm kitchen above and be glad you're cooking in 1955, not 1855.

Editorials...

To Test Boars

IT IS GOOD NEWS that Iowa State College is starting a boar-testing station. It is time that hog raisers had more facts to guide them in breeding operations.

Years ago, dairymen were in as bad shape. Then colleges and farmers began to measure bulls in terms of the production of their daughters. And real improvement in dairy production was made.

The new boar-testing station will measure the value of boars in terms of the growth, feed use and carcass value of their pigs. Each test lot will consist of four boar pigs and two barrows, all by the same sire and out of at least three different litters.

This boar testing station can develop into one of the most valuable projects ever started at Iowa State College. We congratulate Dr. L. N. Hazel and his associates.

Tired Men Get Hurt

A FARMER who lost two fingers on one hand last year lost a finger on his other hand this year. He was telling his friends about it.

"Of course, I know better," he said. "I've warned the boys time and again about doing just what I did."

The accident came at the end of a long day. The farmer was tired. He moved automatically, without thinking, when the machine jammed.

What to do to avoid accidents?

"I don't know," he said. "The only thing I can think of is to work an eight hour day. It's in the last hour of a long hard day that a man is likely to get careless."

Social Security

DON'T BE FOOLED into thinking that farmers have a choice between compulsory social security and voluntary social security.

Voluntary social security for farmers can't be financed and can't get thru congress. Other groups, on a compulsory basis, would regard voluntary social security for farmers as favoritism to a special group and as a burden on social security funds.

The only choice farmers have is between compulsory social security and no social security at all. Which do they want?

Cheap feed coming

Corn sealing, crib building, will help offset bumper crops

MORE feed is on the way despite crop damage in some areas. Down in the southwest, a bumper crop of grain sorghum, grown on land taken out of wheat, is ripening.

Big crops of oats and barley are already harvested. What does this add up to when new crops and grain in storage are considered together?

1. The biggest corn supply in our history.

2. The biggest corn supply per animal unit in history.

3. The biggest grain sorghum crop in history.

4. The biggest hay crop in history.

This big supply of feed, at lowering prices, means more hogs and heavier production of other livestock. Our biggest hog crop is indicated for 1956.

WHERE are we getting all this feed? Mostly from the Corn Belt. Better weather and plenty of fertilizer have pushed yields up.

Southern acreage of corn is less than last year. But more summer rain in that area is increasing southern corn production.

The biggest feed shift came in grain sorghums. In 1944-53, the planted acreage of all sorghums averaged 14 million acres. This year, five states—Texas, Oklahoma, Kansas, Colorado and Nebraska—shifted wheat land into grain sorghum and are raising 19 million acres.

This prospect means cheap feed next winter. Speculators at Chicago are gambling that free corn in Iowa will be around $1.00-$1.10 a bushel in December.

Farmers who are in the ASC program will want to seal every bushel they can. Even a farmer who feeds every ear will find it good business to seal his own corn and buy free corn.

This will be good business for the individual farmer. It will also be good business for all farmers.

The more corn goes under seal, the less will be on the market and the stronger free corn prices will be. And the stronger free corn prices are, the less chance for the ruinous over-expansion of livestock production that always follows a period when feed is cheap.

The livestock man has the biggest stake in a corn sealing program that will strengthen feed prices.

RIGHT now, the big job on Corn Belt farms is to get part of the 1954 crop resealed and to build cribs to handle sealed corn for the 1955 crop. Then the task is to get a new farm program going that will prevent another cheap feed year in 1956.

The present farm program is producing surpluses of feed and surpluses of livestock. It is lowering farm income. It must be changed.

Chance For Profit

CORN AND BEAN loans will be nearly sure profit-makers on the crops now growing. Market prices at harvest time could be anywhere from 15 to 40 cents under loan values.

But you can't take advantage of the loans without storage somewhere. Bins or cribs on the farm save storage costs and keep the grain where you can get it if you want it.

Remember it's only six weeks until bean harvest and about eight weeks until corn picking season.

It's time to compare probable yields with storage space available.

Farm Aid Justified

FARMERS have no reason to apologize for government farm programs, now or in the past. And there's no need to hesitate about asking for future help.

Subsidies and government aid have gone to other groups more than to farmers.

And besides, farmers keep right on producing when prices go down. Factories may close and throw people out of work.

The fact that farmers keep right on producing at any price is a great boon to the people of the country. They know they'll always have food.

This alone justifies government price support programs to shield farmers from the effects of high production and low prices.

Only apology due about government farm price support programs is that we haven't been able to make them work better. That's our job for the future.

At the Fair in Iowa, August 27-September 5, Wallaces' Farmer and Iowa Homestead will have a booth in Machinery Hall. We'll have maps of the fairgrounds for you, shopping bags, a chair, and a drink of water. A man from the Social Security Administration will be there to answer questions. Picture shows folks being helped at the 1954 Fair.

Odds and Ends . . .

COST-CUTTING plans for your farm should aim at reduced cost per bushel or per pound of product. Blind slashing at production costs may actually reduce your income.

. . . IF YOUR FARM is less than 160 acres, it's probable that reduction in cost per unit of production can be obtained by getting more land to farm. If it's 240 or over, enlargement means little in cost reduction.

. . . REALLY BIG CROPS bring less money than small crops for farmers as a whole. But for the individual farmer it always pays to boost production above the average.

. . . IN MANY TESTS, hogs have been produced with around 325 pounds of feed per 100 pounds live weight. But it often takes 450 to 500 pounds. There is a cost cutting possibility on many farms in better feeding.

. . . SUBSTITUTE for present price-support programs is offered by Vice-President D. B. Varner of Michigan State University. He'd put an extension director in each township. The hope is that 12 to 16 times more extension workers would be able to help farmers reduce costs.

. . . EGG PRODUCERS have a chance to see how the Iowa egg grading law will work. It's in effect now since the Supreme Court suspended a district court injunction against the law's enforcement. October arguments will settle the law's fate one way or the other.

. . . CATTLE FEEDING margins show signs of shrinking. In early August, feeder cattle prices were over $1 higher than one year ago. Fat cattle were over $1 cheaper.

. . . IN 1954, IOWA had 194,623 farms averaging 178 acres. Ten years before, Iowa had 209,409 farms averaging 166 acres. We lost 15,000 farms in 10 years, and each farm gained an average of 12 acres.

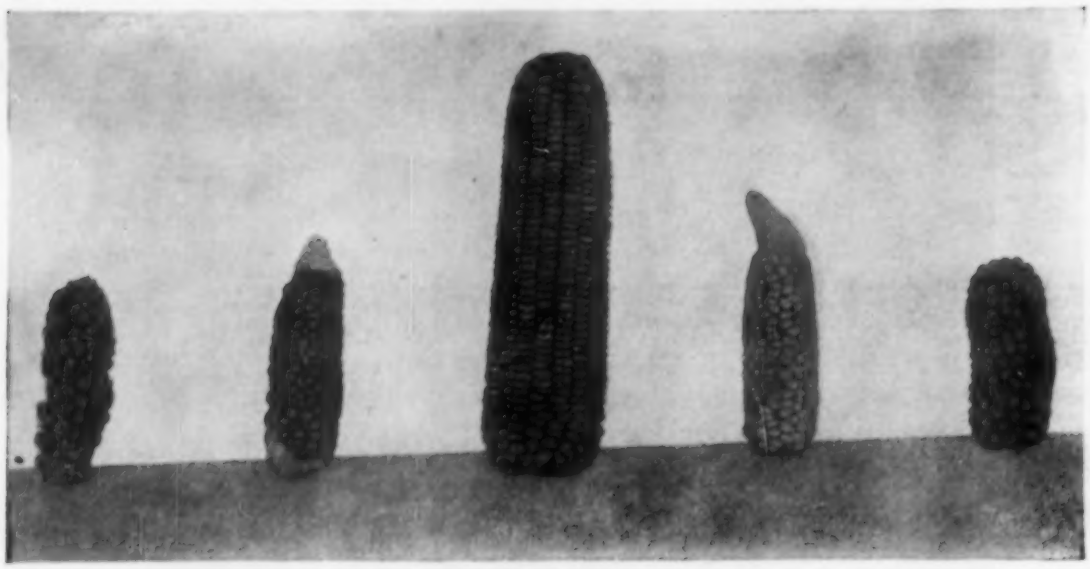
. . . CHOLERA "CURES" were common in the old days. In the Iowa Homestead for April 10, 1862, one farmer wrote: "We have never heard of a farmer losing hogs by this disease who kept them in a good clover pasture thru the summer."

. . . SCHOOL LUNCH funds totalling over 67 million dollars have been allotted to states. Iowa total is $1,096,290; Minnesota, $1,282,618; Missouri, $1,477,591; Nebraska, $548,477; Illinois, $2,501,148.

Song of the Lazy Farmer

THE VERY sight of pesky flies brings angry red into my eyes; of all the critters on this earth, there ain't a one with lesser worth than dirty, biting flies, by gee, nobody hates 'em worse than me. A lizard is a slimy thing, but it don't buzz around and bring a lot of filth into the house; you may not think much of a mouse but you can trap one easily and it's no trick to make it flee. A panther is an ugly beast but there's none in my barn at least; some say a snake's the worst they've seen, but snakes don't cluster on your screen.

Inside the house it ain't no trick to keep the flies from getting thick; these fancy new insecticides will burn big holes in their insides. Sometimes a little dust or spray will chase the dev'lish things away so you can open up a door and not let in a million more. But outside in a barn or lot, they breed too fast for you to swat; oh, sure, we're told we'll be fly-free if things are cleaned up spotlessly, but so far I ain't found a way to organize Mirandy's day to make her normal farm jobs fewer so she'll have time to haul manure.



Inbred ears at left, from early photo. At that time, H. A. Wallace described the ears as follows: "Ear to left is inbred Hogue 9. Next is an inbred Argentine. In the center is a typical Reid's ear for comparison, next Illinois high-fat and at right Leaming 16."

Corn that made Iowa

by **Henry A. Wallace**

ONE hundred years ago, Iowa was in ninth place in corn production, and the total output was about two million bushels. Today Iowa is in first place except in years of unusual weather. The total production today is nearly 300 times as great as in 1850.

I shall not undertake to discuss the tremendous changes in farm machinery and fertilizer practice. Suffice it to say that the methods of 1850 were such that it took about 200 minutes of man labor to produce a bushel of corn as compared with about six minutes today.

Of course it should also be stated that the incidental costs of production aside from man labor and horse labor were far, far less in 1850 than today. Tractors, cornpickers, gasoline, disk harrows, four-row planters, four-row cultivators, fertilizers, and insecticides all cost so much money that our great grandparents would have been horrified as they went their slow way planting by hand, using a one-row or half a row cultivator, and shucking with a husking peg made out of hickory.

Prior to 1903, Iowa corn was a tremendous hodgepodge of different colors, shapes, sizes and maturities. Every farmer who had farmed for any length of time had his own ideas as to what was good corn. But there were no comparative yield tests, and no one really knew which corn was best.

Perhaps the most noted of the early Iowa corn breeders was D. B. Nims of Emerson, Iowa, who with his brother crossed a very late, very deep kerneled yellow corn with an earlier, smoother corn. The result was called Legal Tender.

Perhaps even more noted than the Nims brothers in the early days was H. J. Goddard of Ft. Atkinson, who in the early seventies began to develop Pride of the North, an exceedingly early yellow corn and Silver King, a very early white corn. As recently as 1920, Silver King was the most popular corn in northern Iowa.

When William McArthur of Mason City began to replace Silver King with his Golden King, it was obvious that what he had resembled very much Goddard's Pride of the North. McArthur had, however, improved on Pride of the North for both earliness and yielding power.

More than any other single person, P. G. Holden, who came to Iowa in 1902, changed the nature of Iowa corn during the first decade of the twentieth century.

He brought Reid Yellow Dent corn to the state in a big way for the first time in 1903. He ran high powered corn trains and conducted short courses.

Within a few years, Reid corn had replaced thousands of local strains, 99 percent of which were no doubt inferior in yielding power. Holden with M. L. Mosher, R. K. Bliss and M. L. Wilson started the first comparative yield test work in Sioux county back in 1903.

Previous to that in 1904, I had planted some show ears of Reid corn each in a row to itself and in the fall harvested separately and found that the yield varied for the different ears from 63 bushels to 110 bushels to the acre. I had done the planting at the suggestion of P. G. Holden and was struck by the fact that the ear which he had picked for first from a show ring point of view was among the bottom fourth.

Thus it was that I learned in 1904 and 1906 to know that yielding power counts more than show ring beauty. I have been rather skeptical of show ring standards from 1904 to date.

It was because of this experience that I began making corn hybrids in a big way beginning in 1915. It was in the Wallaces' Farmer of 1919 that I began writing up my hybridizing work.

After 1919, I wrote literally hundreds of articles on corn breeding. Probably all the other farm papers of the country put together did not run even one-fourth as much as Wallaces' Farmer from 1921 to 1932.

During most of this period, hybrid corn was still a thing of the future, but I pride myself that thru Wallaces' Farmer I was able to prepare the way for widespread use of hybrid seed corn.

Just as Holden did a magnificent job during the period from 1902 to 1910, so Prof. H. D. Hughes and Iowa State College at Ames did and are still doing an unusual job of yield testing. First beginning about 1915, Professor Hughes tried the yielding power side by side of the various strains of Reid corn as shown at the Iowa corn show.

Year after year he found differences of 20 bushels to the acre between different strains of Reid, all of them looking much alike and picked for show. Then in 1922 began the really epoch-making Iowa yield test. This spread far and wide high yielding strains of Reid like that of Clyde Black, Fred McCulloch, and others. Then hybrids came in.

I would like to mention that the first hybrids which I produced were not at all good looking. The various commercial companies soon found that the farmers wanted corn looking like the show corn that was so dear to the hearts of the corn show judges.

Today whether Iowa farmers know it or not, they are still under the influence of corn show standards that were set 50 years ago. They have marvelous corn but who knows how much higher yielding it might be made, if we went all-out for yielding power?

About The Author

Henry A. Wallace was a corn-breeder before he was an editor, an economist or a government official. He experimented at an early date with corn inbreds and conducted a 15-year educational campaign in this paper to let farmers know about the possibilities of hybrid corn.

Outside the Corn Belt, folks think of Wallace as a former secretary of agriculture, a former vice-president of the United States, a former secretary of commerce, a former candidate for president. But in the Corn Belt, farmers also remember him not only for his work for the corn loan and other reforms in agriculture but for his experiments in corn and chicken breeding and for his services as an editor of Wallaces' Farmer and Iowa Homestead from 1910 to 1933.

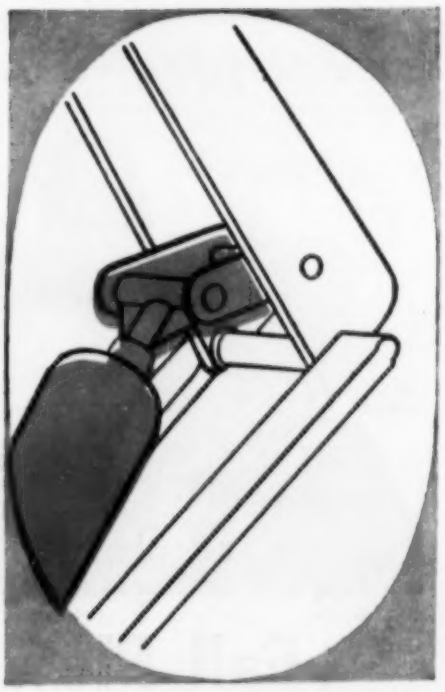
Amazing Invention

Godbersen POWR-LINK

Midwest *The Original*

BOLSTER HOIST

11,000 lbs. and 13,000 lbs. Capacity
Fits All Standard Wagons . . . Flare or Barge Boxes



LOW AS $99.95 F.O.B. FACTORY Complete

2 Models Fit Every Farm Need for Unloading

OUTPERFORMS ALL Wagon Hoists

Thousands of Midwest hoists **now in use** have proved in the field that it gives more service . . . that it's dependable and practically "fool-proof."

The **Godbersen POWR-LINK construction is guaranteed to lift a bigger load, higher with LESS Hydraulic Pressure** than any Wagon Hoist on the market.

No other hoist can give you **ALL of these features** that mean greater lifting capacity, easier operation and more years of satisfactory service.

A. Extra heavy, welded steel lifting yoke.

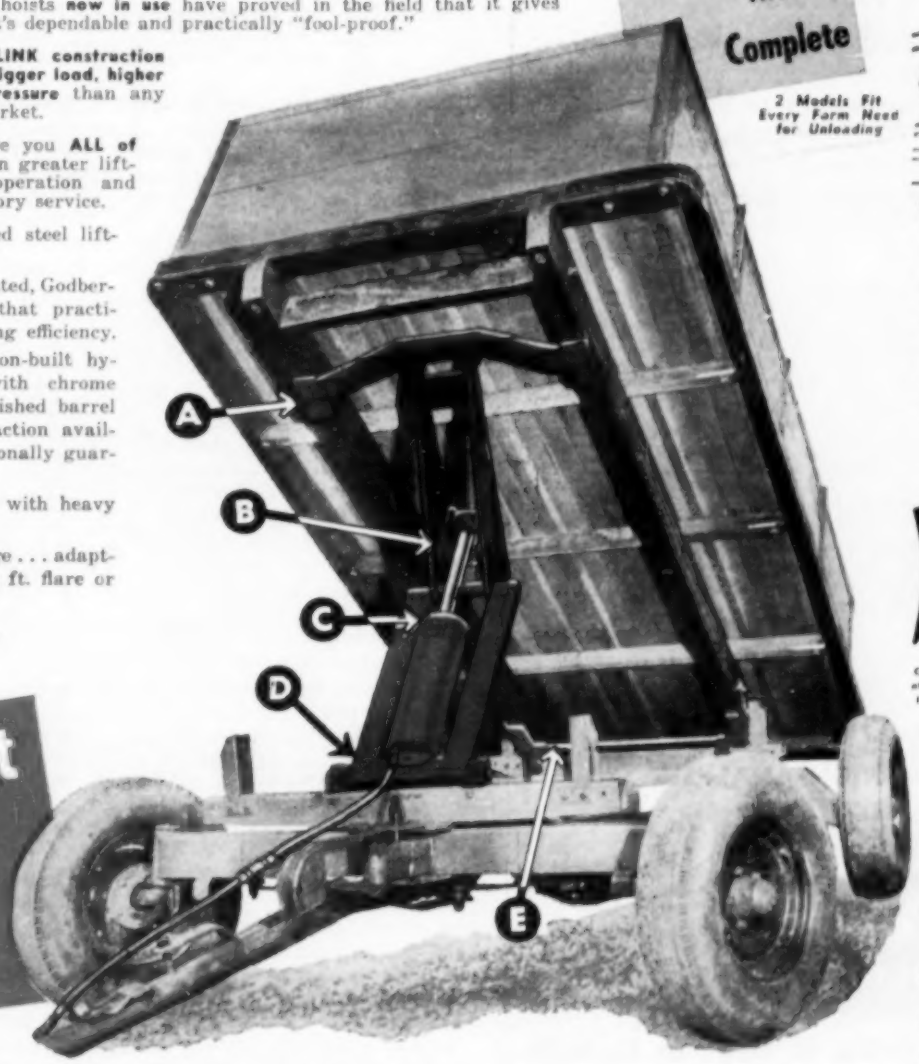
B. EXCLUSIVE, patented, Godbersen POWR-LINK that practically doubles hoisting efficiency.

C. Heavy-duty, precision-built hydraulic cylinder with chrome plated ram and polished barrel (single or double action available) and unconditionally guaranteed.

D. Mounted on bolster with heavy brackets.

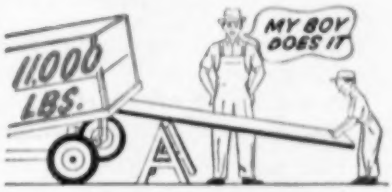
E. Full width rear hinge . . . adaptable to 10 ft. or 12 ft. flare or barge type boxes.

Built To Last A Lifetime



See It In Action AT THE STATE FAIR

Godbersen POWR-LINK Puts Leverage at Right Place for Efficiency

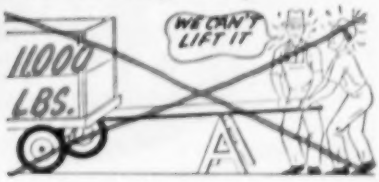


The Right Way to Lift

Here you have the fulcrum for leverage in the right place to lift a bigger load. The Godbersen POWR-LINK acts like a **"movable fulcrum" for greatest lifting power at every point** in the full arc of the lift because it automatically pivots as the load is lifted . . . smooth, easy lifting of heaviest loads without slacking or jerking.

Correct leverage at every point of lift is impossible.

The Wrong Way to Lift



More pounds of pressure are necessary without proper leverage at every point in the lift. The **ordinary hoist connection is fixed.** The result is uneven lifting (extra hydraulic pressures of varying amounts have to make up the difference) that shortens the life of the hoist and hydraulic pump on the tractor.

HERE is the compact, sturdy, powerful, hydraulic Wagon-trailer HOIST at an unheard-of low cost that you have been waiting for to save shoveling and unloading time. As **the ORIGINAL hoist** with the amazing Godbersen POWR-LINK (patent No. 2,698,199 and with other patents pending), farmers and equipment engineers have recognized the unequaled efficiency. Simplified design with the immediate and nationwide demand has brought mass production and made possible the low, low price. It adds very little weight to the wagon . . . is easily installed on any standard wagon gear and is adaptable for 10 or 12 ft. flare or barge type boxes. You'll have to see the MIDWEST in action to realize why the **Godbersen POWR-LINK** (the flexible power booster arm) **lifts bigger loads, easier** . . . absorbs back pressures . . . eliminates excessive wear . . . is easier to couple and operate.

See the Midwest Hoist at the State Fair (southeast corner of Varied Industries Building) **or at your dealers** . . . it's the most sensational invention in the history of hydraulic wagon hoists.

FREE Get the facts on easy unloading. Write for free circular and learn how quickly you can save shovelling and time. **Sold by leading Implement Dealers everywhere.**

Prompt Delivery Is Assured to Your Dealer By These Leading Distributors

DAKOTA IRON STORE
Sioux Falls, South Dakota

HEIDER MANUFACTURING CO.
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DES MOINES IRON COMPANY
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BERVEN AND COMPANY
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THE HAMILTON COMPANY
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Midwest
INDUSTRIES INCORPORATED
IDA GROVE, IOWA

Bolster Hoist

tests prove...

Fall Plow-Down Fertilizer Pays

Iowa Corn Farmers

Why wait 'til next Spring to fertilize when the Iowa State College tests prove that balanced fertilizer plowed down in the Fall gives equal and, in most cases, better results than when applied in the Spring.

Plan now to Fall fertilize with Bumpero and plow-down—you'll find it will pay you, not only in big corn yields, but in time saved next Spring when you need it for other important jobs.

READ THIS SUMMARY OF TESTS CONDUCTED BY IOWA STATE COLLEGE AND PRINTED IN THE SEPTEMBER 1954 ISSUE OF IOWA FARM SCIENCE.

NITROGEN: In 1952 and 1953, Iowa State College conducted 12 tests on nitrogen plowed down in the Fall as compared with nitrogen disked into plowed ground in the Spring. They now conclude that there is no difference in corn yields between nitrogen plowed down in the Fall or disked into plowed ground in the Spring.

PHOSPHORUS: In an average of 20 tests on phosphorus, during 1952 and 1953, phosphorus plowed down in the Fall for corn **outyielded** phosphorus disked in plowed ground in the Spring by 4.8 bu. per acre.

POTASH: In an average of 4 tests on potash, during 1952, potash plowed down in the Fall for corn **outyielded** the spring applied potash 3.9 bu. per acre.

NOTE: *Fall or Spring applications of plow-down fertilizer are not intended as substitutes for starter fertilizer on corn. This should be applied with a fertilizer attachment on the planter.*

make one trip over the field

with BALANCED — HIGH ANALYSIS

BALANCED Bumpero FERTILIZER

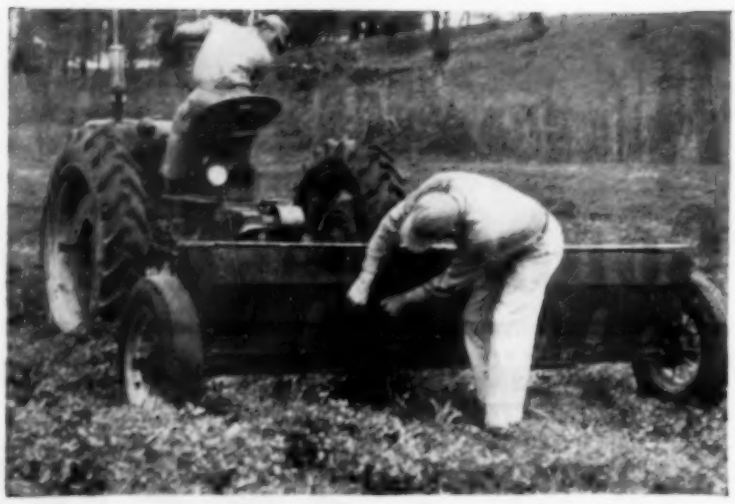
All popular grades available in bags or in bulk

Bumpero, in bags or in bulk, is a free-flowing, high-analysis fertilizer that gives your soil just the right balance of essential nutrients to produce top yields, economically. No need to make several trips over your fields—once over with Bumpero, then plowed down—and the work is done. Quality controlled Bumpero contains phosphorus that is highly water soluble.

Dealers: Don't have your trucks dead-head back from Omaha. Load up with Bumpero—either bagged, bulk or liquid mixed fertilizer. Liquid mixed Bumpero also available at Auburn, Nebraska.

See your Bumpero Dealer now for your Fall needs.

FARM FERTILIZERS, INC.
7500 South 13th St.—Omaha 7, Nebraska



Fall fertilizer for corn can go on now. Harry O. Smith of Henry county, Iowa, adjusts spreader. Field will be plowed for corn. William Smith on tractor.

Fall application of fertilizer...

... gets approval of farmers and experiment station workers. Here are some advantages

SPREADING fertilizer is an any time job.

Missouri specialists say phosphate and potash can be applied any time machinery can get over the fields.

Illinois workers recommend putting on enough phosphate and potash in one application to take care of the entire rotation.

Spring and fall applications of phosphate and potash have given about equal results in Iowa State College tests.

In fact, phosphate plowed down for corn is often better in fall plowing areas. Neither fall nor spring disk-in applications did as well as fall plow down.

Much of the fertilizer for corn and oats could go on in the fall.

Same for legumes. Suppose you didn't get enough fertilizer on at planting time. Or that you are leaving the stand down longer than you intended. Extra fertilizer can help maintain yields. Early fall application can reduce winterkill, too.

Renovated pastures need regular fertilizer treatments. Fall application fits there.

Fall application of phosphate and potash is considered safe on (1) level land, (2) thick sods, (3) gentle slopes that have been contoured, and (4) land that will be fall plowed.

Leaching is not much of a problem on most Iowa soils. But on sandy soils, it is best to hold both nitrogen and potash applications until spring.

Nitrogen leaching is not as serious as the experts once thought. In dry to normal years, even loss of soluble nitrate form has been quite small. But there's little information yet on normal to wet years.

Here's what Iowa State College says about fall application of nitrogen: In western Iowa and on claypan soils, fall application is safe, according to tests conducted to date.

Results based on tests in other parts of the state are encouraging.

However, losses can be expected when nitrogen is applied in the fall on areas having sandy subsoils.

When subsoil moisture is low in the fall, nitrogen should be safe except on sandy soils.

Ammonium forms of nitrogen are a special case. They are considered safe when soil temperatures stay below 50 degrees. That's after the second week in October for northern Iowa. After the last week in southern Iowa.

At least half of the fertilizer used in the Corn Belt could go on in the fall.

Here are some reasons for fall application:

- You get the grade and ratio you want.
- You can often arrange for a lower price.
- Fields and roads are in better shape for heavy trucks.
- There are slack labor periods. No spring rush.
- Dealers are not as busy. You'll get better service.

Fall application does leave funds tied up over the winter. But price discount should more than take care of that. There's a slight chance of lower efficiency.

Many farmers have tried fall application. Take Weldon Franzeen of Greene county, Iowa, for example.

He says, "I've used fall application for the last two years. I plan to again this year."

"Bulk spreaders get over the fields better in the fall. They are more likely to pack soil in the spring," he points out.

Franzeen uses a heavy application of phosphate and potash for corn—the cash crop. Carryover takes care of other crops in the rotation.

Axel Elleby, also of Greene county, says, "Fall application does just as well as spring for me. I save a lot of work by having fertilizer bulk spread."

"There's another big point," adds Elleby. "I buy fertilizer at a lower price in the fall. And storage in the soil costs me nothing."

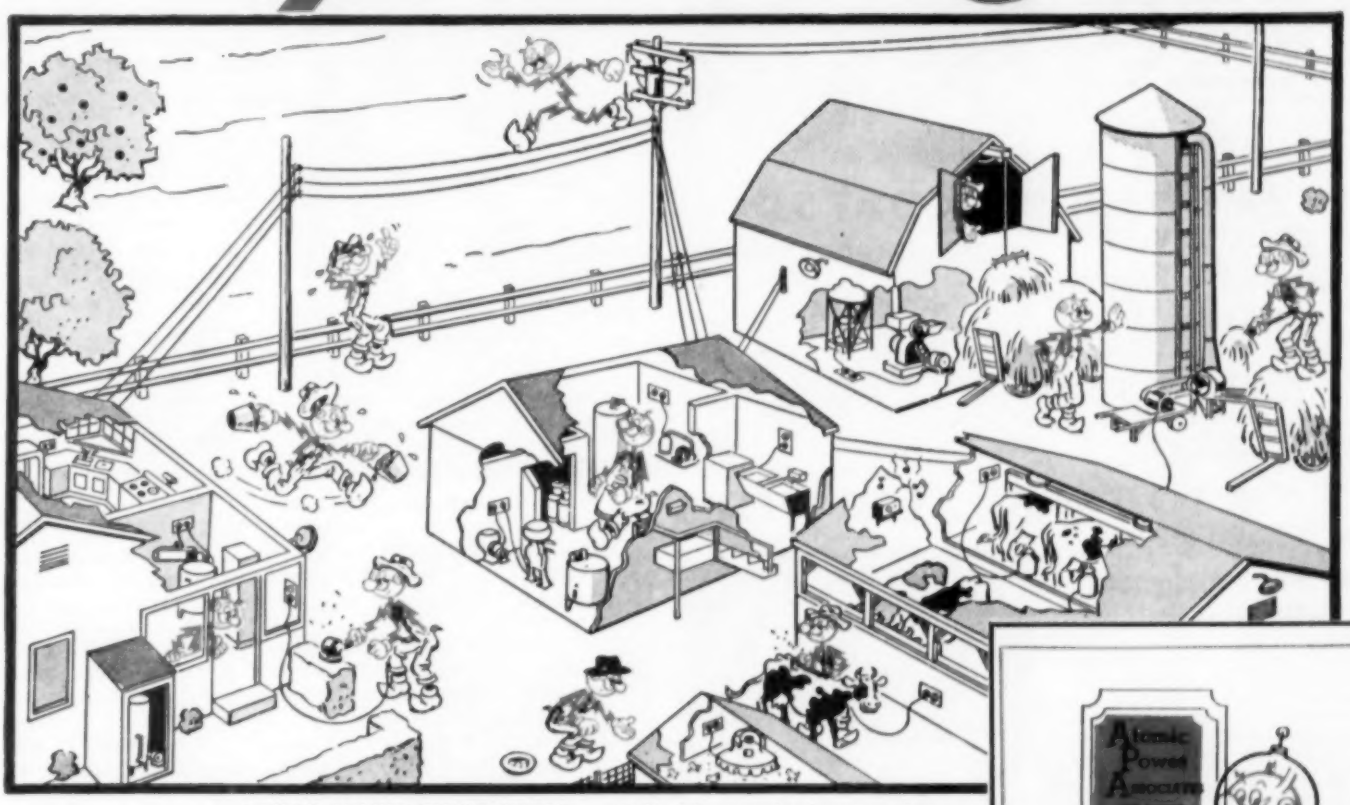
Iowa Farms Show the World the Importance of

POWER

BETTER LIVING ON THE FARM

a'plenty

. . . WILL CONTINUE TO COME BY WIRE



IOWA'S BUSIEST "HIRED HAND" . . . Reddy Kilowatt, who does more than 300 jobs on the farm and in the farm home . . . who works with the speed and efficiency that saves time and energy for everyone on the farm . . . . .

The Farmers and the Electric Companies of Iowa Continue Working Together to Increase Production and Income to New Highs

PROGRESS AND PROSPERITY go hand in hand for the farmers of Iowa who can confidently count upon Plenty of Power to help them increase the productivity and income of their farms. Reddy's helpers . . . the Electric Companies of Iowa . . . are working more closely than ever with farmers to develop new ideas and more and better uses for electric service on the farm.

REDDY'S HELP PAYS OFF

Iowa's farmers and their electric companies are practical men who expect results for their time and investment. Because of their friendly, enthusiastic cooperation, electric service is doing a great job on Iowa farms. Such electric helps as pressure water systems, power hoists, feed elevators, feed grinders . . . all these, and many more . . . take drudgery out of farm work, increase farm productivity and pay off with man-hour savings.

BETTER ELECTRIC LIVING

In the farm home Reddy lends a helping hand in all the housework . . . cleaning, cooking, laundering, refrigerating, clothes-drying, water-heating. He keeps farm home and farm well-lighted with cheerful, friendly radiance. He provides yard and farm buildings with light for every need. He asks only *that you help him as he helps you.* Plan your farm wiring program carefully . . . and see your electric dealer about your wiring needs. Get FREE adequate wiring information.

Atomic Power Associates

Planning Ahead for Iowa's Future in Atomic Electric Power

There's a big time coming when through Iowa's "Expressways of Power" will surge the force of the mighty atom tamed to serve mankind. BUT . . . that time has not yet arrived. There are still a number of steps to be taken before Reddy's electric power will be derived from atomic heat.

The farmers of the Hawkeye State may be sure, however, that just as the Electric Companies of Iowa pioneered in rural electrification . . . so they are bending every effort toward securing atomic electric power. As the Atom Associates of Iowa, they are working to assure that Iowa's future in atomic electric power will be a glorious one.

The Electric Companies OF IOWA

Investor Owned

PIONEERS IN RURAL ELECTRIFICATION

Here's the Line-Up for PROFITABLE FALL PIGS

Start 'Em Right!
Grow 'Em Fast! Sell 'Em Early!
with GOOCH'S BEST

'TEAM of FEEDS'

A Right Feed for Each Stage of the Pig's "Life-Cycle"

AIM FOR MORE PIGS–HUSKIER LITTERS
with GOOCH'S BEST
Brood Sow Supplement

You want to help your brood sows build more and bigger pigs—farrow real "profit-size" litters! Make sure she gets all the nutrients she needs during gestation and nursing periods by balancing your farm grain with GOOCH'S BEST Brood Sow Supplement.

START 'EM ON SOLID FOOD AT 5 DAYS
with GOOCH'S BEST
Sugar-Coated Pig Booster
with GroLac

Gives baby pigs a real head start that carries all the way to market! Pure cane sugar coating provides "appetite appeal" that starts them on solids as early as 5 days; assures fast steady gains from antibiotics and Gooch's exclusive "growth-boosting" GroLac.

RACE 'EM TO 75 LBS. AT 10 WEEKS
with GOOCH'S BEST
Super Pig Supplement
with GroLac

Helps keep your pigs gaining and developing fast—right through weaning! From 6 weeks to 75 lbs., feed this rich, fully-fortified grain balancer that provides weanling pigs with needed protein, vitamins and minerals plus growth-stimulating antibiotics and GroLac.

FINISHING HOGS FOR MARKET NOW?
SPEED 'EM ON—with GOOCH'S BEST
Super "40" Supplement

Each day saved in the final push to market puts you dollars ahead! Gooch Super "40", specially made for growing-finishing hogs (75 lbs. to market), is power packed with all the vitamins, minerals, proteins and antibiotics needed to speed hogs on to market weight and condition. Only ⅔ lb. per head daily balances a full feed of corn.

IF YOU PLAN TO FOLLOW THE
EARLY WEANING PROGRAM
Use GOOCH'S BEST Pig Pre-Starter

Pigs can be safely removed from the sow at 1 to 3 weeks of age with this important new dry "sow-replacer" feed. Especially useful in emergencies: orphan pigs, extra large litters, sows failing to milk. Ask your Gooch Dealer for details.

VISIT THE GOOCH BOOTH AT THE IOWA STATE FAIR

GOOCH'S BEST — GOOCH RED CIRCLES ARE VALUABLE! COLLECT THEM

GOOCH RED CIRCLES ARE VALUABLE
Collect and trade them for valuable merchandise!

GOOCH FEED MILL CO.
Lincoln, Nebr. — Salina, Kansas
Council Bluffs, Iowa — Dalhart, Texas

Multiple purpose hog house was built last spring by Elmer H. Meyer of Cedar county, Iowa. Consisting of five separate units, it's portable.

Easy to move and clean

Portable, all purpose hog house consists of five separate units

TRYING to do a good job of raising hogs with low-cost housing? Then you'll be interested in the portable hog house built last winter by Elmer H. Meyer of Cedar county, Iowa.

Unusual feature of Meyer's building is that it breaks up into five separate units.

"It's easier to move and easier to clean," explains Meyer, who raises about 400 hogs per year in his clean pasture hog program.

When the units are combined (as shown in the top picture), Meyer has a 30x16-foot building. It can be used for baby pigs, growing-fattening hogs or for sows and gilts.

Actually, the building consists of three main units—the center unit and two side units. Each is 10x16 feet in dimension.

The center unit has a permanent floor. It makes a handy feeding area when sows are farrowing. Doors at both ends provide good cross ventilation during warm weather. Alone, this unit can be used as a sun shade.

Floors of the side units are removable. Meyer simply pushes or pulls them under the buildings with a tractor. When not used in the buildings, floors can be used as watering platforms—to keep hogs from making wallows around waterers.

MEYER

All units of the building are mounted on skids.

Removable floors make the building easier to clean in preparation for farrowing, Meyer points out. With floors separate from the building, it's a simple matter to scrub them off.

"It's nobody's idea but my own," says Meyer, a veteran of about 30 years in the hog business. "But I like it."

Floors of side units are separate units. Here Meyer and helper use tractor to pull floor under the recently moved section of building. Sometimes floor is pushed under building with tractor manure loader.

Center unit is pulled up next to the side unit. Note that side unit is completely walled with drop-down door opening toward center unit. Side units can be used separately.

...will You?

We surely hope that you will be able to attend the Fair this year, and we look forward to seeing you at our usual spot—in the Southeast Corner of the Varied Industries Building.

We'll have brand new exhibits that will interest your whole family. You'll see displays of live, growing plants including some new ones that you'll want next year. You'll receive a FREE GIFT for every member of your family, too.

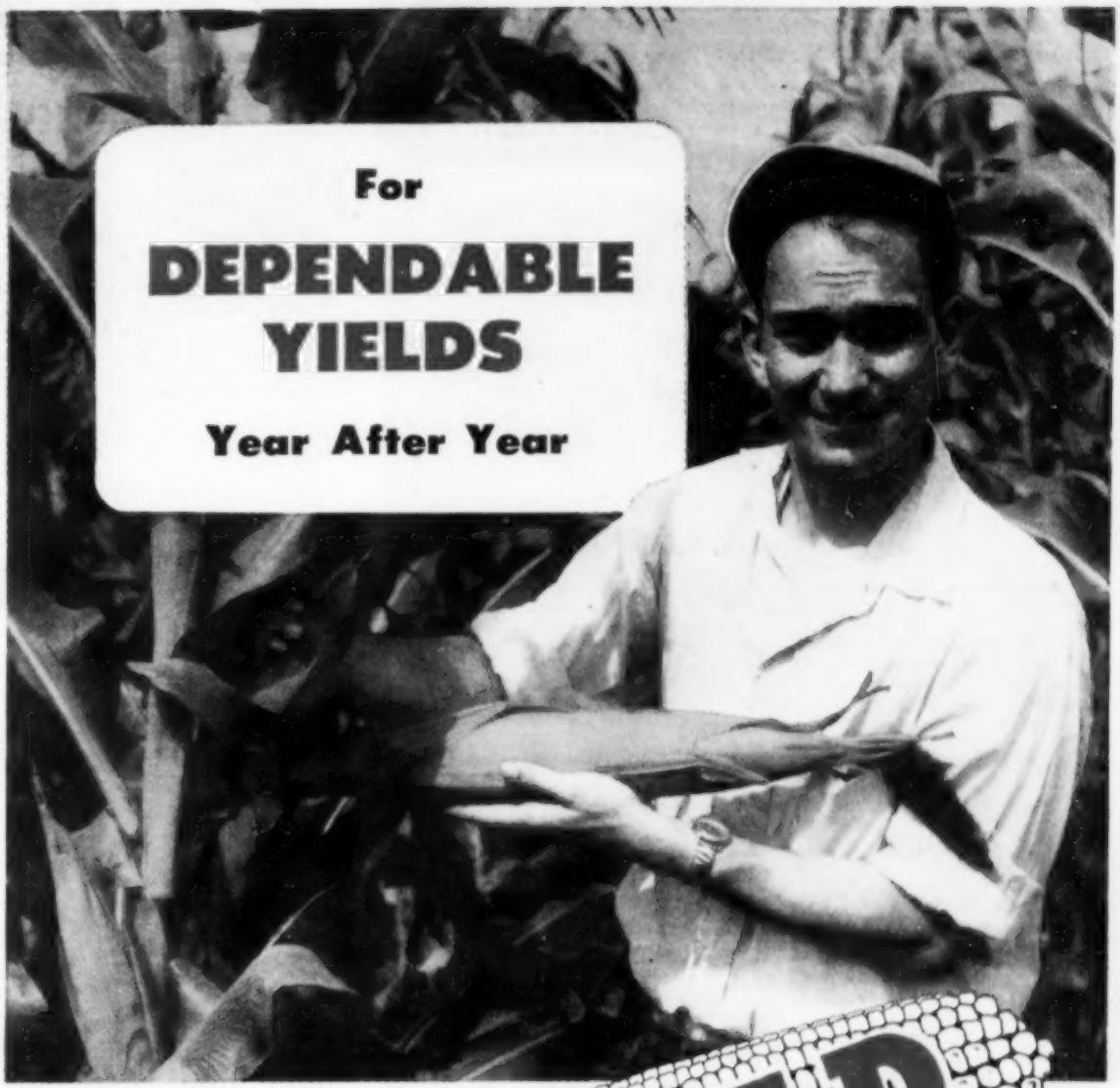
We'll have a big staff of experts on hand to answer questions, so be sure to come by and visit with us.

Be a Maygold Dealer. Write for particulars, or talk it over with our representative at the Fair.

EARL MAY SEED CO.
Shenandoah, Iowa

Be sure to drop in to your nearest Earl May Store any time. You'll find friendly folks there, ready to talk farming, gardening, landscaping, or just visit. You're always welcome in all Earl May Stores, in any of these Iowa cities:

Atlantic	Marshalltown
Boone	Mason City
Carroll	Muscatine
Cedar Rapids	Newton
Centerville	Oskaloosa
Cherokee	Red Oak
Council Bluffs	Shenandoah
Creston	Sioux City
Denison	Storm Lake
Des Moines	Washington
Fort Dodge	Waterloo
Harlan	Webster City



PLANT

MAYGOLD HYBRIDS

. . . and here's the reason why!

ONLY MAYGOLD GIVES YOU...

- **DERMATIZED PROTECTION**
  assures better stands
- **RIGID TESTING**
  proved performance in your area
- **BLOODLINE BREEDING**
  guarantees crib-busting yields
- **PRECISION GRADING**
  insures uniform planting

A FREE REPLANT AGREEMENT backs all MAYGOLD HYBRIDS

Take the gamble out of corn growing. Maygold's superior varieties come through year after year with the best possible yields for your soil and weather conditions.

Order your Maygold now from your nearest Earl May Store, or see your neighborhood Maygold representative.

FREE CORN BOOK

12 colorful pages packed with comments by your neighbors and other Corn Belt farmers who have planted Maygold Hybrids. You'll want to read it. Just send us a post card. Ask for the Corn Book.

Earl May SEED COMPANY
SHENANDOAH, IOWA
Be a MAYGOLD Dealer - Write for Information

Port Huron

FOR THE BEST IN FARM TOOLS

Lundell

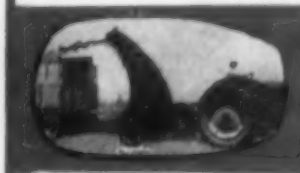
THE FARMERS' CHOICE

for quality and performance

There's a LUNDELL machine designed to handle all your chopping chores better, faster and at lower cost. Whether it's shredding corn stalks and straw for bedding, or harvesting forage for green feeding or ensilage, you can depend on LUNDELL . . . the finest name in forage harvesting equipment.

STALK SHREDDER

Completely shreds and pulverizes stalks, straw, brush and weeds in the field. Forty swinging knives make quick work of the toughest crops. Simple design and rugged construction for long life dependability. The shredder is the basic unit for the Deluxe and Direct Throw harvester.



OFFSET CHOPPER

The new offset hay chopper can be easily converted to the new LUNDELL corn silage machine. You get a finer cut with this simple and low cost machine.

DIRECT-THROW CHOPPER

The original low cost direct-throw machine. Cup-shaped knives take a 78" swath cleanly. Will not cut wire into small lengths.

DELUXE CHOPPER

Equipped with auger-blower for delivery to side or rear. Available with smooth or serrated sickle sections.

LUNDELL'S PERFECT PAIR

The Power-built Hydraulic Wagon Hoist and high capacity Forage King Blower take the toughest unloading jobs in stride. Rugged blower construction lets you drive right over when hopper sides are down.

Lundell MFG. CO. CHEROKEE, IOWA

Dept. WF-8B

Why plow?

Here's what plowing is doing to our farms:

1. ***Hardens and compacts soil***
2. ***Prevents soil from soaking up water***
3. ***Causes water to stand in flat fields***
4. ***Causes water run-off and gullys on slopes***
5. ***Leaves soil bare to blow***
6. ***Deeply buries organic matter***

With plowing these problems are getting worse but until recently it was the only tillage method known.

What tilling should do. Farmers plow, disc, and harrow to do two things: (1) prepare a seed bed to give crops a fast start ahead of weeds, (2) mix organic matter within the soil to improve its condition for future crops. Conventional tilling falls down in *both* jobs—creates problems listed above, too!

Rotavation improves soil as plowing never can. Rotary tillage combines plowing, discing and harrowing into *one* operation and does it much better.

Rotavation creates loose, crumbly soil—permits air to get to plant roots. Rotavated soil quickly soaks up moisture, holds snow, resists erosion from water and wind. Rotavation can never cause "hard pan" because it *loosens* the soil. And Rotavation will mix more organic matter more evenly into the soil than any other method of tillage.

Recent U. S. Dept. of Agriculture tests showed that Rotavator was the only implement tested that mixed soil uniformly to a six inch depth.

Rotavators are available in 50, 60 and 70 inch tractor-trailing machines, smaller tractor-mounted types, nursery and garden walking types. Write today.

ROTAVATOR

Howard Rotavator Company, Inc.
1600 Davis Street
Arlington Heights, Illinois

PORT HURON MACHINERY CO. 301 E. Court Ave. Des Moines, Iowa

SEE US AT THE STATE FAIR

BUERKENS *ALL-PURPOSE* WAGON BOX

A Top Quality ECONOMY WAGON BOX . . . WITH HEAVY 2 INCH TONGUE AND GROOVE FLOORING.

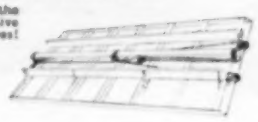
- All-purpose two-way end gate.
- Floor bolted for extra strength to carry the load.
- 3 sizes . . . 6 x 10, 26" sides; 6 x 12, 26" sides; 7 x 14, 16" and 26" sides.
- Flare model available as well as barge box pictured at left

BUERKENS All-Purpose Wagon Boxes are available with or without the BUERKENS HYDRAULIC UNLOADER.

"THE ORIGINAL" BUERKENS HYDRAULIC UNLOADER

- Fingertip control for all forward or reverse speeds from rear of box.
- Guaranteed to unload 10,000 lbs. at 750 lbs. P.S.I.
- Completely hydraulic unloading operation. No belts, chains or speed jacks.
- Roller no false front endgate front prevents marring of box flooring.
- False front stops automatically when reaching front or rear of box.
- Will mount on any box.
- Works from double or angle action system.

Note the Exclusive Features!



UNLOADS

CHOPPED HAY, ENSILAGE, SMALL GRAIN, EAR CORN, EARTH, ETC., FASTER AND EASIER

BUERKENS SINCE 1865 **Corp.**

PELLA, IOWA

Announcing THE NEW HESSTON self-propelled SWATHER

FIELD TESTED FOR FIVE YEARS

LOOK AT THESE PLUS FEATURES:

- Simplified V-Belt Transmission
- Multiple Reel Adjustment
- Adjustable Floating Platform
- Farmer Designed — Simple and Easy to Operate and Service
- Swather Completely V-Belted
- Ground Drive Mechanism Chain Driven.

HESSTON STRAW CHOPPER

- Properly Shreds and Chops Heaviest Soybean Straw
- Fits Both Large and Small Combines
- Trouble-Free Operation
- Rugged Construction. Built like a hammer-mill. Free-swinging hammers tear and shred straw to short pieces. Often eliminates one plowing or discing. Easily installed or dismounted.

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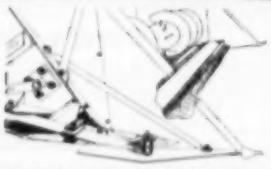

HESSTON SOYBEAN ATTACHMENT

Reduces bean loss at the cutterbar. Fits IH, MH, and JD SP combines.

SEE THESE UNITS AT THE STATE FAIR

Send this coupon to nearest distributor below, or to HESSTON MFG. CO., INC., 340 King Street, Hesston, Kansas

SEND COUPON TODAY

PORT HURON MACHINERY CO., 301 East Court Avenue, Des Moines 8, Iowa

Gentlemen: Send me information on ☐ Self-Propelled Swather ☐ Retractable Finger Auger ☐ Cylinder V-Bars ☐ Quick Cylinder and Concave Adjustment ☐ Straw-Chopper ☐ Sealed Bearings ☐ M-H Beater Sprockets ☐ Soybean Attachment ☐ Tank Loader and Extension ☐ Friction Throttle for IH H and M.

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SHAVER HYDRAULIC POST DRIVER

IT'S SO EASY—
This new modern way to put in wood fence posts

HYDRAULIC SYSTEM—
Your tractor does all the work

OPERATES ANY POSITION—
Up hill, side hill, down hill

Puts in as many as 80 rods of posts in 80 minutes

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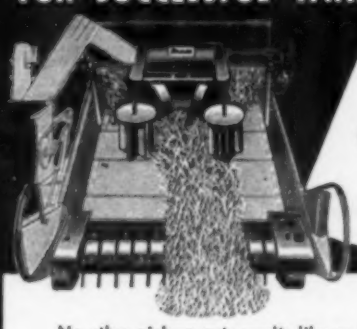
WATERLOO AND SPENCER TOO!

FOR SUCCESSFUL WINDROW HARVESTING



USE THE *Innes* WINDROW PICK-UP

No other pick-up gets results like an Innes!

Its strong, revolving fingers lift the windrow carefully from underneath, like a huge pitchfork. They gently deposit the entire windrow, intact and unshelled, on the combine canvas. Then, on the downstroke, these patented piston fingers automatically strip themselves of entanglements. They draw completely back within the rotor, so that weeds and vines can neither wrap and stop the mechanism, nor get inside to clog the drive.

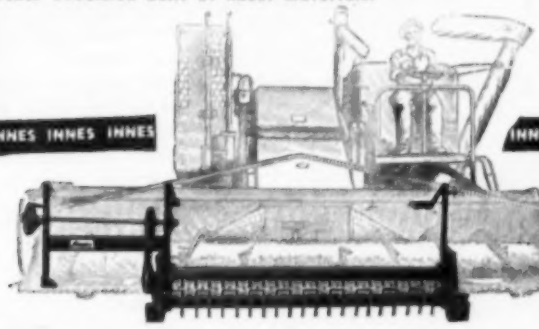
The Innes Pick-Up is so easy to handle that one man can attach it in a few minutes, without even removing the sickle guards. Stiff and spring finger models fit most combines.

This is the pick-up that gets in the most of your crop with the least time and labor! It can pay for itself the first three hours you use it! **FEEDER** distributes windrows equally along entire length of wide cylinder combine. Travel 1/3 faster, save up to 50% more grain and seed.

Floating Pick-up ADJUSTS TO UNEVEN GROUND

Automatically follows the contour of your field. "Floats out" hills and slopes so that you hardly need to adjust your platform at all. For self-propelled combines: custom fittings in stiff and spring finger models for Deere, Case, Gleaner S-P, McC-D, M-H, M-M S-P, Oliver, Cockshutt S-P, Allis-Chalmers S-P.

The above products handle all windrowed crops with equal ease. Precision built of finest materials.



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FOR THE BEST IN FARM TOOLS

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Manufactured by SHAWNEE MFG. CO., INC. 1947 FF N. Topeka Ave., Topeka, Kansas

Rugged waqner Step-in Design!

Heavy Duty LOADER

MODEL WF3

½ CUBIC YARD CAPACITY

Fits—Ford "800", "600", NAA, 8N and 9N; Ferguson TO-20, TO-30 and "35"; International I-300; Oliver Super "55"; Allis-Chalmers CA; Case VAI; Cockshutt "20"; John Deere 40S and 40U.

WF3 has single-acting side cylinders; is available with down pressure side cylinders for additional bucket or blade penetration and controlled leveling.

Famous "Step-in Design" lets you get on or off tractor from either side or rear. Unobstructed vision provides added safety. Easy to assemble or remove from tractor. Third cylinder "finger-tip" controlled attachments.

Here's the loader for toughest material handling jobs in your farm or business operations. Has normal lift capacity of 1000 lbs.; maximum breakaway of 2100 lbs. (WFD3 capacities approximately 50% more). Long reach for clean loading. Unit-welded, extra heavy, rigid tubular truss design. No sway.

Other models for all uses—farm and commercial—for all sizes and makes of wheel tractors including Ford Series 700 and 900, Farmalls (old and new), Allis-Chalmers, Case, Massey-Harris, Cockshutt, David Brown, Fordson Major, also the John Deere 40C and International T6 and TD6 Crawlers. Backhoe and rear fork lift also available for most popular tractors.

Send coupon for full information on Wagner loaders for your tractor.

Wagner Iron Works
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Send me more information on Wagner loaders. I have a _____ tractor.
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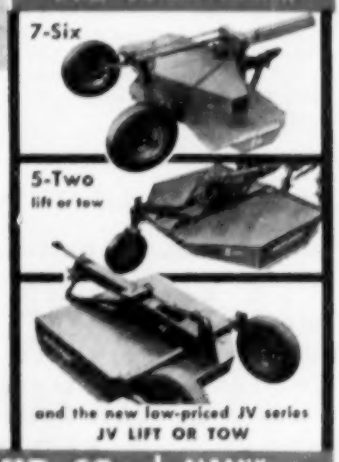
TRACTOR LOADERS
Rear Fork Lifts Backhoes

What a job ROTO-SPEED can do on YOUR FARM!

Your stalks, your pastures, your unused land — Roto-Speed can cut and clear them easily, swiftly. Massive blades shred the tallest stalks, shear their way through the densest brush, the toughest vines — leaving only a fine mulch — rich humus for your soil. Rugged? So tough that maintenance costs over the years are unbelievably low. Try it yourself. Your dealer will be glad to show you why the Lilliston Roto-Speed is the finest name in rotary cutters.

ONE IS JUST RIGHT FOR YOUR FARM



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Meet the McCurdys

. . . Making big strides in better hybrids for better farming!

HYBRID CORN . . . HYBRID OATS . . . HYBRID HOGS

Personal supervision is the reason why *McCurdy Hybrids* are proving so successful . . . not only in Iowa but in every state where they are raised. See the new McCurdy Hybrid Seed Corn and their new Hybrid Oats at the Fair, Varied Industries Building, *booth 161*. A member of the McCurdy organization will be glad to discuss your planning problems with you.

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Since 1939 • **FOR THE FARMER WHO PREFERS THE BEST**

TWICE THE WORK IN HALF THE TIME!

WITH THE OMC OWATONNA

SELF PROPELLED—CENTER DELIVERY

WINDROWER

MANY PATENTED FEATURES

THE ORIGINAL—used on the farm, proved on the farm answer to low cost windrowing. Over 4000 Owatonna Windrowers are saving time and money for farmers across the nation. ONE MAN—ONE MACHINE cuts and windrows all hay or grain quicker, cleaner and easier than any possible combination of machines. RELEASE YOUR TRACTOR for other uses. Just once through a field for light, fluffy, quick drying windrows. 8' to 16' cuts, 15 H.P. and 25 H.P.

OMC PORTABLE ELEVATORS

Complete line of budget priced, large capacity elevators

FREE WRITE TODAY FOR FREE FOLDER AND COMPLETE INFORMATION

OWATONNA MFG. CO., INC.—OWATONNA 14, MINN.

SEE THE OWATONNA DISPLAY
AT YOUR
IOWA STATE FAIR—AUG. 22-SEPT. 5
AND AT YOUR
CLAY COUNTY FAIR—SPENCER, IA.
SEPTEMBER 12-17

Crop dryer does double duty for W. A. Fair and son Charles of Ida county, Iowa. Last fall, it dried 4,500 bushels of corn. This summer, 2,000 bushels of oats were dried.

Crop dryer for your farm?

Here are points to consider about crop dryers. One might make money for you

PICKING corn early may call for a crop dryer. But it has some real advantages. Especially this year when corn borer damage may cause extra losses.

If you have grain sorghum, drying is almost necessary. You may want to consider new hybrid sorghums for your farm. They may replace some corn in parts of the Corn Belt.

Here are some reasons why you may want a dryer:

- **Early harvest. Weather is** better. Driving tractor is more comfortable. There's less chance of crop damage from high winds.
- **Fewer dropped ears. Corn** can be picked while shanks are strong enough to hold ears that would drop as stalk dries out. There'll be fewer broken stalks with ears the picker doesn't get.
- **Equipment works better.** Ground is often in better shape. Less corn is shelled when ears hit snapping rolls.
- **"Wet corn" can be saved. It** can be dried for safe storage.
- **New corn can be sold** earlier. And without a moisture discount. Or you can store it safely if price looks like it would go higher.
- **Corn can be shelled for stor**age. That can cut costs if you need more storage. You can use a picker-sheller.
- **With heated air, corn can** be dried in any kind of weather. Quality corn is insured for either sale or feed.
- **Green stover can be har**vested for silage. Pick early. Then use regular field chopper to make stover silage.
- **Land can be seeded to a** cover crop after corn is harvested. This reduces erosion and weather action on soil structure.

Crop dryers aren't all advantages. Here are some of the drawbacks:

- *Extra labor is required. A* dryer takes some watching—particularly with heated air.
- *Cribs or bins have to be* adapted for use with dryer. This is no problem if you have to build all new storage.
- *Extra handling of grain with* batch type dryer. You may be able to pick corn a little faster than you can dry it.
- *Use of heated air brings* some fire hazard. Tho risk is small, some insurance policies do not cover fires started by dryers. You may want to check with your insurance agent on that.
- *Market price difference may* not pay for drying every year. Particularly, below 15.5 percent moisture. That's something you'll want to check on before you dry corn to be sold.
- *Cost of equipment. Substan*tial cash outlay is required for heated air dryer. Tho dryers are usually profitable, first cost is big item to some folks.

Operating costs will vary with amount of moisture removed and amount of crop dried. But fixed costs can be estimated at about 10 to 14 percent of the cost of the dryer.

Use of dryer isn't limited to corn. Some farmers use their dryers on first cutting hay. Then they dry oats. That lets them get away from windrowing. And saves grain, too. Some combine soybeans early and dry them.

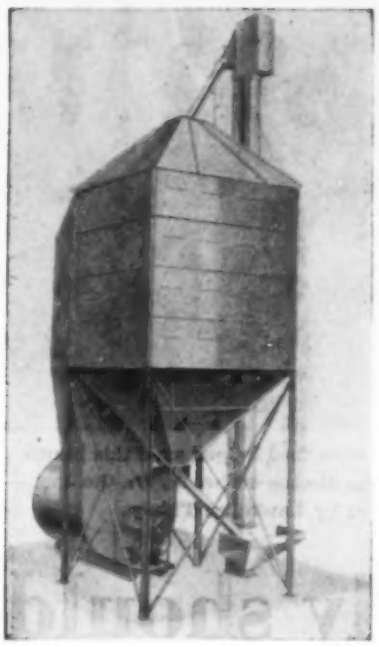
Roy Taber of Whiteside county, Illinois, uses his dryer mostly for corn. He needed 10,000 bushels of storage space for corn. The crib he wanted to build would have cost about a dollar and a half per bushel.

So he bought a crop dryer and steel bins.

"Cost of this setup was about 50 cents a bushel," says Taber. "I could even afford to buy a picker sheller rather than build the crib."

"Early picking saves me money every year, too," he adds. "I get new corn on the market early with no moisture dock. And picking losses are next to nothing. I wouldn't be without a dryer now."

WHAT'S NEW IN FARM EQUIPMENT
... from Corn States Hybrid Service



New Deluxe

CAMPBELL DRYER

Here's the way to get an extra 10% to 20% more yield from your fields! Higher yields mean money in your pocket . . . money that you can see . . . money that makes the difference in your net profit per acre. See this and other Campbell High Capacity Dryers when you come to the Iowa State Fair . . . see how a Campbell dryer is more than insurance in wet years . . . every year it will readily make money for you.

PRICED FROM **$3168.00**

CAMPBELL DRYER CO., DES MOINES, IOWA

The Experts Say . . .

You Can Guarantee
HIGH PROFITS
Even With Low Prices

Grain Prices Lower This Fall, But, You Can Make High Profits.

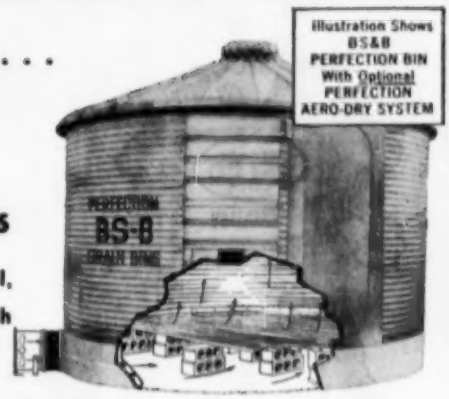


Illustration Shows BS&B PERFECTION BIN With Optional PERFECTION AERO-DRY SYSTEM

IF . . . you **seal** your Corn at $1.58 and buy low priced cash corn for feed.

IF . . . you plan now to **seal** your Soybeans at $2.04 instead of selling at around $1.85 or less.

IF . . . you **Reseal** 1954 or older corn at 15c per bushel resealing payment from A. S. C.

IF . . . you buy PERFECTION Grain Bins through A. S. C. Installment Plan for as little as $7.00 down and 5 years to pay.

Write Today for FREE literature that will help you to make more income from your 1955 crop! Fill in the coupon below:

PERFECTION GRAIN BINS	PERFECTION AERO-DRY
Up to 80% Loan	Up to 75% Loan
Straight 4% Interest	Straight 4% Interest
5 Years to Repay	4 Years to Repay
100% Tax Write-Off Spread Over 5 Years	100% Tax Write-Off Spread Over 5 Years

BLACK, SIVALLS & BRYSON, INC.
7500 East 12th Street — Kansas City 26, Missouri

BS&B — ANOTHER EXAMPLE OF PRODUCT LEADERSHIP

*AERO-DRY is a trade mark of Black, Sivalls & Bryson, Inc.

CORN STATES HYBRID SERVICE
Grain Bin Division
1101 Walnut Street, Des Moines, Iowa

Please send me, without obligation, complete information on BS&B PERFECTION GRAIN BINS and PERFECTION AERO-DRY SYSTEMS.

NAME _____
ADDRESS OR RFD _____
CITY _____ STATE _____
PLEASE PRINT

Check these **SNOWCO** *extras*

See how the SUPER CHIEF AUGER does a better job for you!

- ✓ AUGER CONSTRUCTION—Shaft driven with adjustable roller chain and steel sprocket features; heavy duty nose bearing.
- ✓ LOW ENGINE MOUNTING—For accessibility; engine level at all times without adjustment.
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Snowco Auger Scoops priced as low as **$19.95** F.O.B. OMAHA
12' & 16' Lengths with 69" extensions
manufactured by

PLUS, OF COURSE, SUPERIOR SNOWCO CONSTRUCTION

Heavy gauge, 6" steel tubing; especially designed gear box; transport carriers made of heavy tubing and designed for low center gravity in towing. Three models—25', 31', 41'. Priced from $229.50.

Compare SUPER CHIEF — it's unexcelled at any price!

THE SNOW COMPANY
500 No. 30th Street
OMAHA, NEBRASKA

See 'Em All At The Fair!

All of these exciting new innovations in farm equipment can be seen at the Iowa State Fair. You can actually watch the new deluxe Campbell Dryer in operation; you can check the BS&B Grain Bin inside and out; and you can see for yourself how light and portable the new Snow Auger Scoop really is. Stop in and look them over. You'll see how each piece of equipment is a step forward in making your farm work easier and more profitable.

And while you're in Des Moines for the Fair, stop in at Corn States Hybrid Service at 1101 Walnut Street. The Corn States man . . . himself an expert on agriculture and farming methods . . . will be glad to chat with you and answer any questions about Campbell Dryers; BS&B Grain Bins; Snow Auger Scoops; Ames Irrigation Equipment; new, sensational NCL Leaf-Feeder Dust, and many other fine products.

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FELCO FREDDIE SEZ:

START 'EM FAST

with

FELCO

TRADE MARK REGISTERED

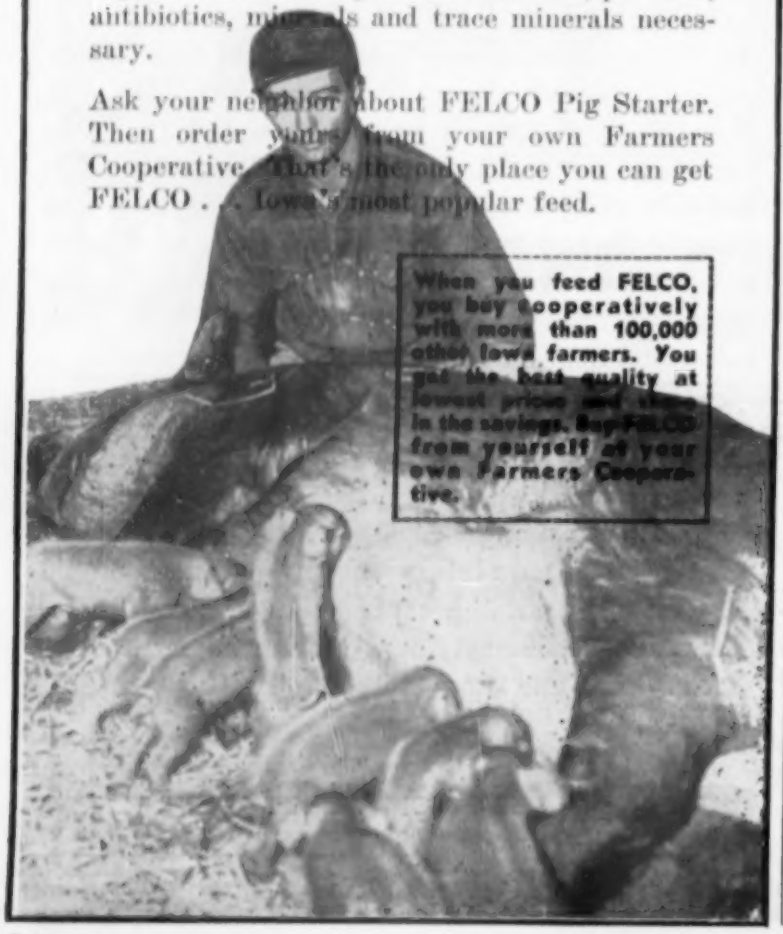
Pig Starter

Creep-feed FELCO Pig Starter and go for fast profits

Plan for extra hog profits this year. Get your pigs started fast, weaned early and to top markets. FELCO Pig Starter can help you. Baby Pigs go for FELCO because it contains 50% rolled oats and it tastes good. Iowa's top swine producers go for it because it contains everything necessary for fast, healthy growth.

Combine well-bred pigs with FELCO Pig Starter and you have a good money-making combination. It tastes good and has quality ingredients including all the vitamins, proteins, antibiotics, minerals and trace minerals necessary.

Ask your neighbor about FELCO Pig Starter. Then order yours from your own Farmers Cooperative. That's the only place you can get FELCO . . . Iowa's most popular feed.



Early weaning and pre-starter feed helped save this bunch of pigs from disease outbreak. On the Jackson county, Iowa, farm operated by Lawrence Thines.

How early should you wean?

Farm experience shows answers vary from one farm to another

"IN THE last two years, I haven't weaned a pig that was more than six weeks old," reports Jim Shaff of Clinton county, Iowa.

"After that, pigs just fight for teats," Shaff explains. He thinks they're better off away from sows—where they'll fill up at the self feeder, rather than chase their mothers.

Lots of good hog producers are swinging into agreement with Shaff. They're using improved starter feeds to bridge the nutritional gap that used to exist between drop in sow's milk production and adaptation to dry feed.

Some hog farmers report good results from weaning even earlier—10 days to three weeks of age. That, of course, involves feeding a pre-starter or baby pig feed like ISC "pre-starter 75."

Otis Hofer, one of Shaff's Clinton county neighbors, was satisfied with results when he weaned 160 pigs at two weeks of age last February. In fact, he weaned 100 June pigs at about the same age.

"I didn't figure on weaning the June pigs early," Hofer explains. "But it turned hot. And the sows were laying on two or three pigs a day. So I took 'em away."

As an added benefit of early weaning, Hofer hopes to get three crops of pigs from his sows this year—January, June and October.

But for some farmers, early weaning has failed to give the results hoped for. Shaff, for example, gave early weaning a trial last spring. He weaned his 230 early spring pigs at varying ages—10 days to six weeks. He kept feed costs on part of the pigs. And he came to this conclusion concerning weaning pigs at two and three weeks of age:

"It costs too much unless you have special reasons—like breeding sows back or something."

Shaff says his early weaned pigs did just as well as those that were weaned later. It was the higher feed cost on early weaned pigs that worried him. And in figuring those costs, he considered cost of feeding sows, the sow's weight loss, etc.

"Of course, I might get different results another time," Shaff admits. But for now, he thinks five or six weeks is the best weaning age.

Contrasting experience of these Clinton county neighbors points up one thing that should not be overlooked when considering early weaning. Not everybody gets the same results.

Best way to find out about early weaning is to try it on a few litters. Keep records. See how it works for you.

There's another point to remember about early weaning. It has helped some farmers stop disease outbreaks.

Lawrence Thines of Jackson county, Iowa, gives early weaning and pre-starter feed a big share of credit for saving most of the late spring pig crop. His pigs were about four weeks old when the local veterinarian suggested weaning and prescribed pre-starter feed plus medication.

"They were a sad looking bunch of hogs," Thines recalls. Picture on this page shows the hogs at eight weeks of age.

The disease which affected the pigs' livers had already claimed about 25 pigs. But after weaning, Thines lost only "four or five" more pigs. His explanation: It was easier to get antibiotics and medicine into the pigs after they were taken away from sows and the ration could be controlled.

NEW DeKalb CORN

DeKalb 401
A new hybrid with medium early maturity, top-notch yielding and standability, and strong stalks and shanks.

DeKalb 414
Shows exceptional tolerance to Diplodia stalk rot, and has high yielding ability, too. Maturity similar to DeKalb 406 and 408.

DeKalb 623
Medium in maturity and especially adapted East of Mississippi River. High sugar content produces better, more tasty silage.

DeKalb 806
Medium maturing, rugged hybrid adapted to high temperatures and more arid conditions in the western part of the cornbelt.

DeKalb 820
Medium maturing hybrid with outstanding yielding ability and picking qualities. Ears ripen while plants remain green.

5 new and proved varieties to make you, IOWA farmers, more money

DEKALB research triumphs again! Last year DeKalb introduced the most imposing array of new hybrid varieties ever released to the public in one year . . . each a thoroughly tested creation of the corn breeders art. And now—DeKalb geneticists again release more brilliant NEW hybrids for next spring's planting. Each of these new varieties have proved superior over all corn against which they were tested. Each are produced and tested in IOWA—on soils and under weather just like yours.

DEKALB AGRICULTURAL ASS'N., INC., DEKALB, ILLINOIS

Commercial Producers and Distributors of DeKalb Seed Corn, Chix and Grain Sorghum

DeKalb has been planted by More Farmers for 16 straight years than ANY other seed corn

Location is one feature of machine shed on Ed Jack farm, Cedar county, Iowa. It was placed in relation to new barn and other buildings which will be put up in the next few years.

Double duty for machine sheds

GET EXTRA use from your machine shed by planning before you build.

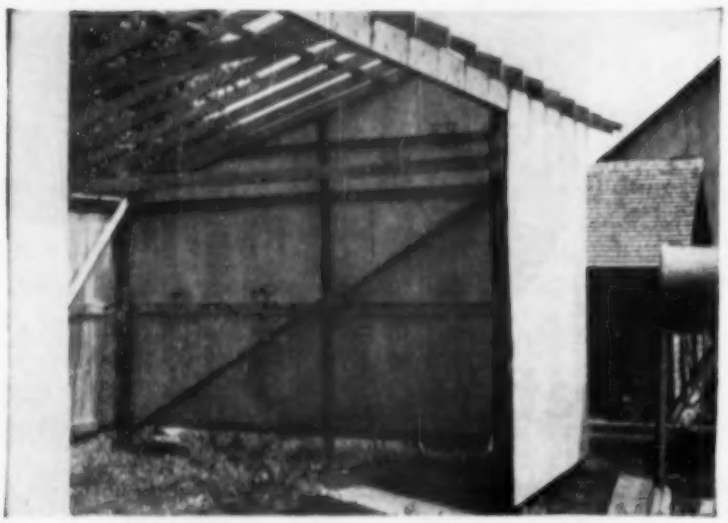
Location is a major feature. Best spot is one easily reached from both fields and farm yard.

If you are planning new buildings in the near future, be sure location of machine shed fits with new buildings.

If you need a shop area, one end of the machine shed is an ideal spot for it. You may want to close off the shop so it can be heated for winter repair work. Electric wiring to shop area should be heavy enough to handle power tools you will be using.

Big doors make your shed more useful. Check size of your biggest machines. Then leave a few inches of clearance. Big door can let you pull a load of hay out of the rain, too.

Some farmers build one section of their shed higher than the rest to take care of big machinery.



Clear span construction lets you store machines with less work. Here is new shed going up on T. R. Orr farm in Cedar county, Iowa.

Big door makes it easy to store combine or corn picker. Shown is shop-machine shed on J. J. Fitzpatrick farm, Henry county, Iowa.

Shop and garage are in one end of machine shed on J. J. Strohman farm in Keokuk county, Iowa. Son Eugene Strohman is shown in shop area.

you get up to

4 times your money back

using LION AMMONIUM NITRATE

on forage crops

Up to 6 times your money back on corn! Up to 10 times on cotton! Up to 6 on small grains! Up to 8 on rice! These are facts, not mere claims.

Of course, actual costs and gains in your individual case will depend on the type of soil you are farming, the delivered price of Lion Ammonium Nitrate in your locality, and other variables. However, the gains shown above are typical for ammonium nitrate applied to fields fertilized according to their needs as indicated by soil tests.

Lion Ammonium Nitrate Fertilizer is scientifically prepared to give you the *most nitrogen per dollar*—the *lowest-cost nitrogen* available in solid form. And this superior fertilizer contains *two* types of nitrogen—*quick-acting* nitrate nitrogen to get growth started fast, and *longer-lasting* ammonia nitrogen to insure continued growth.

For pre-planting, side dressing or top dressing with solid nitrogen, insist on Lion Ammonium Nitrate. Get the most for your money. See your favorite fertilizer supplier for your requirements.

LION AMMONIUM NITRATE FERTILIZER is guaranteed to contain 33.5% minimum nitrogen. Special conditioning gives the uniform pellets increased resistance to caking during shipment or in storage. This fertilizer flows freely, spreads evenly. Its uniform high quality is guaranteed. Available in 80-lb. and 100-lb. bags.

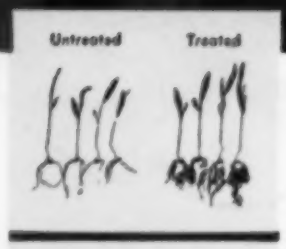
Lion . . . the Largest Manufacturer of Prilled Ammonium Nitrate Fertilizer in the World, also produces Sulphate of Ammonia Fertilizer and Anhydrous Ammonia.

A SOIL TEST *is the first step toward the intelligent use of money-making plant foods. See your county agent, vo-ag teacher, or soil conservation leader for advice and assistance.*

LION OIL COMPANY

CHEMICAL SALES DIVISION — **EL DORADO, ARKANSAS**

OTHER REASONS WHY UNITED-HAGIE CAN GUARANTEE YOUR CORN YIELD*



UNITED-HAGIE coats with both disease resistant and nutritional elements. Seed is protected from soil-borne diseases, fungi, cold . . . . . also given its first meal for a fast sure start and better germination. Ordinary coating protects seed from disease but fails to give it that extra fertilization for a good start.

Exclusive KERNEL-KOATING FEEDS and PROTECTS the seedling

Unlike other hybrids, which coat the kernels only to protect them, United-Hagie coats the kernels with both disease resistant *and* nutritional elements. Thus, United-Hagie coating protects the seed from soil-borne diseases, fungi, and cold *and* gives the sprouting seed its first meal . . . for a fast, sure start. This is why your United-Hagie field is usually up first in the spring. A good, strong, early stand gets the jump on weeds and pays off at harvest time, too, in lots of extra bushels per acre. Remember, only United-Hagie hybrids are Kernel-Koated for protection and feeding.

CHECK THESE OTHER REASONS WHY UNITED-HAGIE CAN GUARANTEE YOUR CORN YIELD*

Exclusive built-in "weather insurance"

With United-Hagie "Bin Buster" varieties each hill contains plants with roots that go down to different depths in the soil and thus do not compete for moisture and food. This means you can plant thicker, too, for bigger yields.

Planter-plate graded

For easier, evener planting . . . better, fuller stands . . . each sack is marked with the planter plate number.

More corn--less cob

You get a higher shelling percentage. United-Hagie scientists have developed hybrids with small cobs and big, deep, full kernels.

Sturdy, disease-resistant stalks

More resistant to corn borer damage. They stand straight and strong even in dry, windy weather.

Tested for your locality

In 17 major research plots throughout the Midwest, United-Hagie hybrids are tested and adapted for top-yield production in your area.

***Every Farmer Should Plant Some* UNITED-HAGIE**

*YIELD GUARANTEE

"United-Hagie hybrid seed corn is guaranteed to produce as well or better than any other corn of like maturity you plant under similar conditions . . . or your money refunded after official check."

REPLANT GUARANTEE — if hail, flood, insects or any other cause makes replanting necessary, United-Hagie furnishes the seed free of charge!

In 1954 a total of 42,198 corn-belt farmers planted United-Hagie seed on this money-back guarantee . . . 42,178 of them found United-Hagie produced equal to and better than any other corn they planted.

MORE REASONS WHY WE CAN MAKE A YIELD GUARANTEE

In 1954 Iowa Corn Yield tests United-Hagie set records like these: Northern District: 5 of 6 United-Hagie Hybrids entered rated in the top group, with performance scores of 100 or better; In North Central and Southern Sections United-Hagie also rated at the very top.

In United-Hagie's Youth Corn Growing Contest, Leo Schmit, Coggon, Iowa, harvested 156.18 bu/acre on a 10 acre plot. Results like these make United-Hagie's amazing yield guarantee possible.

AFTER-HARVEST PAYMENT PLAN — pay only a small amount down when you get your seed. Pay the rest by November 1.

YOUR UNITED-HAGIE DEALER — attends regular briefing sessions at our research and developmental facilities. He is well trained to help you select the best variety for your soil and climate. Drop a postcard for his name and address to United-Hagie Hybrids, Inc., Des Moines 9, Iowa, today!

UNITED-HAGIE
HYBRIDS
Grow and Compare

Know what you're getting when you . . .

Buy oat seed

- **Plenty of good seed is available**
- **Prices will be reasonable**
- **No new varieties are being released**
- **But some shyster salesmen will still try to sell you high-priced seed**

DON'T let anybody fast talk you into paying a high price for oat seed. Or into buying some new wonder variety that hasn't been adequately tested.

Best bet is to stick with tested varieties. At this time, no new promising varieties are ready for release.

A record oat crop insures plenty of proven seed at reasonable prices. Chances are you can get good seed of the variety you want not far from your own farm. Maybe your own seed will do after cleaning and testing.

At least, you can find an established dealer who stands only to lose by selling poor seed or unadapted varieties.

If some farm-to-farm salesman offers you seed at a fancy price, take time to investigate.

He'll have a list of neighbors who have already taken advantage of his special deal. But that doesn't insure getting a fair shake. Most likely, the only thing special in his deal is a way to get some of your money.

Already, seed of a Canadian variety is being sold, according to some reports.

The variety is Garry. It has been tested in Iowa for three years. It grows about six inches taller than Cherokee. It matures about a week later.

Yield was about 11 bushels less than Missouri 0-205. And over 13 bushels less than Sauk. Test weight of Garry is low. Percentage of hull is quite high. That means that less of the oat is good feed.

Otherwise, Garry does have stiff straw. And some disease resistance. But Iowa State College specialists find that it doesn't measure up to the standard of recommended varieties.

Recommendations will be made after this year's tests are checked over. Probably sometime in October.

But maybe you'd like an advance guess on varieties most likely to appear on the recommended list. Then check varieties certified in 1955. They are almost sure bets.

Clinton and Branch varieties were dropped from the list. They were replaced by Clarion and Sauk.

Here's the list of varieties that could be certified:

Early maturing varieties.

Cherokee: Slightly earlier and shorter than Clinton. High test weight. Susceptible to race 7 stem rust and Septoria black stem. Some tolerance to race 45 crown rust.

Nemaha: Much like Cherokee.

Bonham: Much like Cherokee. But a little higher yielding than Cherokee in most Iowa tests.

Medium maturing varieties.

Andrew: High yields. Stiff straw. Resistant to race 7 stem rust. Susceptible to race 8 and Septoria black stem. Some tolerance to race 45 crown rust.

Clintland: Similar to Clinton except resistant to all crown rusts now found in United States. But susceptible to race 7 stem rust. Resistant to race 8. Moderate resistance to Septoria black stem.

Mo. 0-205: High yields. High test weight. Medium straw strength. Gray grain color. Outstanding in southern and central Iowa on lighter soils. But good for all of Iowa. Susceptible to Septoria black stem and race 8 stem rust.

Clarion: Much like Clinton. Good yields. Stiff straw. But resistant to race 7 stem rust which Clinton lacked. Has field tolerance to crown rust.

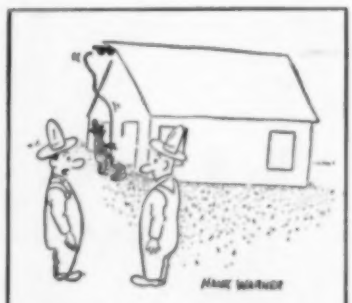
Late maturing varieties.

Ajax: High yields. Poor test weight. Some tolerance to race 45 crown rust. But susceptible to many other races. Susceptible to race 8 stem rust.

Clintafe: Similar to Clinton—slightly taller and later. Resistant to race 45 and other crown rusts found in United States. Resistant to Septoria black stem and race 8 stem rust. But susceptible to race 7—the big weakness of this variety. Seems best adapted to the northern half of the state.

Sauk: Much like Branch. Yield is a little higher. Two or three days earlier. Good resistance to Septoria black stem. Some to race 45 crown rust. Resistant to race 7 stem rust. Best on medium to low fertility soils.

Seed of all certified varieties should be plentiful. Buy one of these. Or wait until recommendations come out later this fall. That gives you the best chance of a bumper oat crop again next year.



"Since I hired that college student from India to help me, I never have to worry about getting my hay rope up."

Cattle Feeders!

New Feeding Program brings you more profits!

Helps Prevent Disease

Produces Healthier Cattle

Promotes Faster Gains

...all at a cost of less than 1¢ per head per day

with the world's greatest disease-fighter

AUREOMYCIN*

CHLORTETRACYCLINE

in creep feeds, pasture supplements and feed lot rations

Every cattle feeder knows that fast, low-cost weight gains *won't* show up *unless* cattle *live*, get off to a good start, develop the stamina to resist stress and disease, keep "doing well".

That's why a feed ingredient that *has the power to aid both in disease prevention and promotion of fast gains* can be such a profitable boon to the cattle industry. And that's why – long before this announcement – many cattle men *had already turned* to the foremost antibiotic, AUREOMYCIN Chlortetracycline.

They knew of AUREOMCYIN as the antibiotic famous for its ability to suppress more disease-producing organisms than any other known drug ... thus promoting rapid, sturdy growth. They knew of AUREOMYCIN as the antibiotic that had brought so many extra profits to growers of chickens, turkeys, swine and dairy calves.

Wouldn't AUREOMYCIN work just as well for cattle? The answer is "yes". After more than 5 years of exhaustive tests on farms and ranches and at experiment stations, AUREOMYCIN has been proved not only safe for cattle but highly beneficial. AUREOMYCIN can be profitably fed to cattle *all the way through from start to market.*

This is what successful cattle feeders everywhere are finding when they feed AUREOMYCIN: They say cattle given AUREOMYCIN stay healthier, look better, have better "bloom". They report less pneumonia and respiratory troubles; less scouring and intestinal disorders; fewer sickness days; less mortality; fewer "tail-enders"; increased weight gains; better feed conversion; higher profits per animal.

Where to get AUREOMYCIN

AUREOMYCIN is supplied to feed manufacturers and feed mixers in the form of AUROFAC® products for concentrates, supplements, range cubes and mixed feeds. Two new, improved AUROFAC products–AUROFAC-A and AUROFAC-A CRUMBLES – are especially adapted to these feeds. Write for your free copy of a new booklet called "AUREOMYCIN for Cattle Feeding". It gives you the complete profit story.

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AND

ORPHAN PIG RATION

"Sugar Coats"

The very latest development —tiny nuggets of body building nutrients coated with pure white powdered sugar. Baby pigs simply can't resist these fortified Sugar Coated Baby Pig Pellets. The tasty "Sugar Coats" actually melt in their mouths . . . and the little porkers are headed for fast, economical gains soon after birth.

Orphan Pig Ration

Saving those extra pigs per litter can mean the difference between profit and loss. Use Honeggers' Orphan Pig Ration . . . an easily digested, specially-fortified dry feed. A simple, economical way to get your orphan pigs started fast. Many hog men have found Orphan Pig Ration perfect for early weaning, too.

See Your Honegger Big "H" Feed Dealer Or Write

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FEED & MILLING DIV. FAIRBURY, ILL. - BREEDER HATCHERY DIV. FORREST, ILL.

Hog styles do change. Here are three champion barrows exhibited by Iowa State College at the 1910 International.

Hogmen chose the Suffolk

Pioneer articles tell how farmers made over the hardy "Prairie Rooter"

by **Art Thompson**

WHO can remember when the Suffolk hog was the leading breed in Iowa? Or when it was the common thing to drive hogs to market with the drovers battling stampedes at every bridge and the owner fretting about the steady shrink?

Who recalls when pigs were left unweaned until the sow herself took matters in hand?

Probably not many farmers living today have memories that go back that far. But such interesting aspects of early hog raising come to light when you go rummaging thru old files at the Wallaces' Farmer and Iowa Homestead office.

Until about 100 years ago, there were few hogs of any recognized breed in the western Corn Belt.

They were mostly the so-called "prairie rooters" with long legs, tough bristles and mixed colors. By the 1850's, however, an English breed known as Suffolk had been introduced for crossing with good results on native hogs.

For awhile, the Cheshire, Essex and Irish Grazier also were used. At first, these hogs did a lot to refine the "prairie rooter." But being too small, lardy and early-maturing themselves for long continued use, they had to give away by the 70's to the Polands, Chesters and other breeds we know today.

Hog improvement thereafter speeded up as the U. S. population growth and industrialization heightened food demand.

By 1891, the secretary of the Iowa Agricultural Society was so impressed that he stated: "The skillful breeding and raising of swine is so general that the standard is practically uniform. There are preferences by the individual or the neighborhoods for special varieties or crosses; and packers have a choice for various meats for different markets. But the end of improvement is attained and there remains only the duty of . . . obviating all cases of degeneracy."

Alas, somebody must have failed to "obviate" degeneracies sufficiently because we still are struggling to improve hogs.

Fortunately, one terrible scourge—hog cholera—has been pretty well whipped with the passing years.

In 1892, Dr. D. E. Salmon of the U. S. Department of Agriculture could only recommend as treatment a daily flush with certain sodium and antimony compounds, mixed in sulphur and charcoal. Some farmers grew jimson weed in their lots, having heard it would ward off cholera.

While many ideas have changed since the early days, other views then expressed are still strangely up-to-date. In an 1890 issue of the Iowa Homestead, a South Dakota reader wrote: "A few years ago the market demanded large, heavy fat hogs and a farmer had to feed his swine until they were from a year to 18 months old. But the public taste has changed and the consumer demands younger meat, well streaked with lean."

For many years, tho, the big, heavy hog was in style. Nearly every state fair had its 1,000-pound boar.

In the March 19, 1915, issue of Wallaces' Farmer, John M. Evvard of the Iowa Experiment Station, in response to much public curiosity told how he had produced a hog that weighed 405 pounds at eight months.

Evvard seized the occasion to boost free-choice self-feeding, a relatively new idea at the time.

After reporting on the breed background of the big hog and its herd mates, he declared the important thing was that "They ate to suit themselves as regards time, choice of material and quantity of the same. They simply lived among the feed boxes, in close proximity to an abundance of drinking water." Today it seems incredible that this method once was viewed with skepticism.

Just the same, early hog men had some correct hunches on hog feeding. As early as 1865, it was held that hogs got something of special value by following cattle. We now know that certain essential vitamins are manufactured in the paunch of cattle and pass out with the droppings.

New Idea Corn Pickers

famed for more ears, fewer husks...in less time

EXCLUSIVE TRAILING HUSKING UNIT of the NEW IDEA mounted picker frees the tractor of roughly ⅓ of picker's total weight. Quickly detached, it allows tractor to be used for other work. Big, 10-roll husking bed gives mounted NEW IDEA picker greater husking capacity.

PLENTY OF ACRES PER DAY with well known NEW IDEA Pull-Type Pickers (up to 12 acres with one-row model shown above; up to 18 acres with similar two-row model). Assure a most workman-like job of picking, husking and loading.

Year after year, more farmers pick corn with NEW IDEA machines than with those of any other make. This confidence has been merited ever since NEW IDEA produced the world's first successful tractor-powered picker. Today, NEW IDEA's corn picker leadership in efficient performance and reliable construction is most thoroughly established. Whether you manage large acreage or run a family-size farm, there's a NEW IDEA Corn Picker Model that will assure you many years of clean fast harvesting at lowest possible cost per acre and per bushel.

TWO-ROW MOUNTED PICKER

A revolutionary concept in design, which provides all the mobility of mounted picker operation, yet requires the tractor to carry only the weight of the snapping unit. The separate husking bed gives it the greatest capacity of any mounted picker . . . rides on its own stout trailer wheels. Fits 26 models of popular row-crop tractors. Makes available right now, the improved picker that will be needed to handle the higher acre yields you hope to be growing soon.

ONE-ROW AND TWO-ROW PULL-TYPE PICKERS

Models that established the NEW IDEA reputation for clean picking, thorough husking and sturdy dependability. Let your nearby dealer explain their many superior features.

Corn picker demonstrations willingly arranged.

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- ☐ Portable Elevators
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BIG BEEF COWS are better than small ones, according to a New Mexico study. Large Hereford cows were compared with more compact cows of the same breed. The larger cows stayed in the herd about a year longer. The calving record was better. And more of the calves were weaned. The large cows averaged one and a half more calves during their lifetime in the herd.

SOME MOLDS and fungi need light before they reproduce. Different kinds of light affect different species. These forms of life contain no chlorophyll—the substance that lets plants use sunlight in manufacture of food.

FRUIT FLIES now help scientists check poultry breeding techniques. The flies are similar to chickens with respect to rate of egg production and egg size relative to body size. It takes about two years to get full egg production records on hens. But for flies, two weeks will do the same job. The flour beetle is being used in much the same way.

SUGAR CANE BORERS in Louisiana may find themselves in a new trouble. Entomologists imported special flies costing 20 cents each to help fight the borer. The flies deposit eggs at the entrance holes made by the borers. When an egg hatches, the larva moves into the hole and feeds on the sugar cane borer.

RESEARCH workers found that 100 percent humidity stays longer in the morning and returns two to six hours earlier in the afternoon at three inches above soil surface than at 24 inches.

USING a high-energy supplement in a sheep's ration can increase the digestibility of roughage in the ration by more than 10 percent. That's according to United States Department of Agriculture tests. The high-energy supplement provides for more bacteria in the sheep's rumen. This increases the amount of roughage that is digested.

DULL, ROUGH milk cans may add three times as many bacteria to milk as smooth, shiny cans. Check cans frequently for broken seams, rust spots, or milk stone formation.

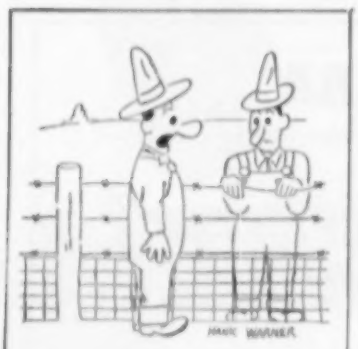
USE of radioactive phosphate fertilizer now lets scientists get a more accurate measure of phosphorus available from the soil. The method is supposed to give close check on how much phosphorus you can expect your soil to supply for crops.

WHEN a strange cow is introduced into the herd, milk and butterfat production can drop off as much as five percent. That's according to Louisiana tests.

A FIRM in England is now making a protein concentrate from grass. Freshly-cut grass is chopped up and processed to remove the juices. The juices are refined into a high protein feed. It can be fed as liquid, paste or cake. Or mixed with other feeds.

UNITED STATES Department of Agriculture tests showed that lambs eat more if feed is pelleted. And they waste less. Lambs gained one-third to one-half faster. And they used 20 to 30 percent less feed than when the ration was fed loose. Further work is needed to see if extra gain will more than pay for the cost of pelleting.

ONE-THIRD of the fatal tractor accidents reported happened to children and young folks under 20 years of age. Another one-fourth happened to folks in the 50 to 64 age group.



"It never fails . . . You make money to pay bills you made last spring so you could make money this summer."

I Lowered My Feed Cost Switching to HOG CONCENTRATE

WILLARD E. SWATERS of DENISON, IOWA, *feeds his hogs* MURPHY'S. *Here's what he says:*
"We farrowed 152 pigs and marketed 151 hogs 5 months and 17 days later, weighing an average of 203 lbs. at Sioux City market. These hogs were fed from birth to market on MURPHY'S hog feeding program. The average feeding cost per head was about *$9.25* per 100 lbs. of gain, including all farm grains, concentrate and minerals. This year we have 123 head of hogs that are on the way to an even better record."

ELDON and J. C. VERCANDE of NORTH ENGLISH, IOWA, *have this to say about* MURPHY'S *hog feeding program:*
"Our spring pigs were farrowed between February 6 and March 12, 1954. We weaned 104 head. We used 2350 lbs. of MURPHY'S PIG STARTER for a cost of $211.50; 125 lbs. of MURPHY'S PIG SPURON, cost $33.75; 5100 lbs. of MURPHY'S CUT-COST HOG CONCENTRATE, cost $377.40, and 874 bushels of our own corn, cost $1311. The total cost was $1933.65. Gain cost us $9.30 per 100 lbs. of pork."

HARRY PETERSON of SCRANTON, IOWA, *feeds* MURPHY'S *to his hogs on his farm. He says:*
"I got the best gains on my bunch of pigs I ever got and with less feed! I sold the first pigs at 5 months weighing 220 lbs. I really like MURPHY'S HOG CONCENTRATE to help me raise the kind of hogs that get to market fast for a low outlay for feed."

GLENN SLINGER of CHARLES CITY, IOWA, *who is a* MURPHY HOG CONCENTRATE *feeder, says:*
"I changed to MURPHY'S after feeding another feed for 3 years. I changed feed to lower my feed costs and I saved over $200 on feeding 100 pigs the MURPHY way." 1

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BURLINGTON, WISCONSIN

I Lowered My Feed Cost Switching to BEEF CONCENTRATE

CLARKE McDONALD of GLIDDEN, IOWA; *has this to say about* MURPHY'S BEEF CONCENTRATE:
"I fed 40 steers that weighed 836 lbs. when bought and weighed 1268 lbs. when sold. The steers went in drylot and were self-fed a ration of ground ear corn, CUT-COST, MURPHY'S MINERALS and hay. Consumption of CUT-COST averaged ¾ lb. per head per day. These steers went to market in 132 days on May 10. *Their average daily gain was 3.3 lbs.*"

You can safely feed MURPHY'S CUT-COST BEEF CONCENTRATE *free choice. So to save labor and lower your feed costs—Switch to* MURPHY'S.

NORVILLE McCLEARY of LIBERTYVILLE, IOWA, *has this to say about* MURPHY'S *beef program:*
"My MURPHY-fed cattle put on about 3 lbs. gain per head per day on a ration made from 19 lbs. of corn, ¾ lb. of CUT-COST, and a little silage and straw. I've tried other feeds including the latest in "growth additives" but I've always done better on MURPHY'S. I can self-feed MURPHY'S with no worries and no scours. My cattle are staying on feed with good, rugged health and top feed efficiency."

MURPHY-*fed cattle go on feed easily—stay on feed better.*

JOSEPH A. KARME of CARROLL, IOWA; *feeds* MURPHY'S BEEF CONCENTRATE *on his farm. He has this to say:*
"I feed about ¾ lb. of MURPHY'S BEEF CONCENTRATE per head per day along with ground corn and roughage. The last group of cattle I fed out on a MURPHY feeding program gained an average of 3.2 lbs. per head per day for 128 days. These MURPHY-fed cattle were sleek coated—shipped well—and sold well at the market." 2

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Voice of the farm

Will Lower Prices Cut Production?

To the Editor: Secretary Benson says lower prices will cut down production. How about that? Will you work less hard when corn prices are down?

As you well know, because corn is cheap, more farmers will feed hogs, so hog prices will be cheaper. And more farmers will feed cattle and beef cattle will be cheaper for the same reason . . . Are you going to work fewer hours? Instead you are going to work harder than ever. You will plant every available acre, raise more hogs to feed more cattle.

You may not want to do this, but you will be forced to, to keep the wolf from the door . . . In 1932, despite the wholesale liquidation of farmers thru sheriff's sales, it did not cut down overall production.

Furthermore, the "roaring 20's" were not too different from the "roaring 1950's." Business and industry roared on their merry way. To no avail, the farmer fought for his fair share of the national income. It would seem that Ike and Benson would profit from the example of the 20's.—F.L.B., Kankakee county, Ill.

Defends Moon Farming

To the Editor: I am a moon planter and trimmer.

Next spring when you plant your peas, plant a row the second day of the new moon. Then wait until the second day of the first quarter and plant another row along side of the first planting. I'll bet you a cookie you won't get any peas from the second planting—but plenty from the first planting.—E.M.W., Carroll county, Ill.

This writer also insists that fence posts set during the "up" of the moon will "hoove" more than posts set at other times. And that grass covered by a plank will die more quickly during one stage of the moon than another. Anybody else have "proof" that "moon farming" does or does not work?—Editor.

Farm In Family Since 1855

To the Editor: My grandfather was born in Morgan county, Ohio. He lived there until he was married. Then he came to Iowa and lived in Muscatine county for a few years. Then in 1855, he came to Mahaska county and settled on our farm . . . It has been in the Eveland name ever since.

My son is operating the farm now. And has a son who is the fifth generation on the farm.—John H. Eveland, Mahaska county, Iowa.

Limit Farm Size By Law?

To the Editor: . . . Benson and other high officials are for the man who feeds 300 or 400 head of cattle and hogs. Then all we hear is "over production." Then the government hires men to see how many acres of corn you have and how many you should plant.

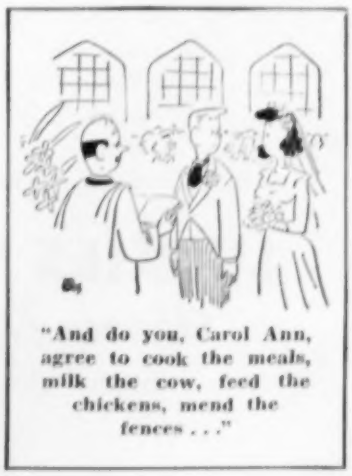
If that is the only way to control over production, wouldn't it be just as easy to pass a law that no one man can farm more than 160 acres? Then we'd all have a decent living.—Herbert Holtz, Wayne county, Nebraska.

He Still Farms With Horses

To the Editor: My husband is doing horse farming on our 80 acres near Lockridge. Last spring following the harrow proved too difficult so he contrived a hitch on our old buggy and pulled the harrow behind it.

He does all our farming with the old gray mares, except what obliging neighbors do for us with tractors. He cultivated and put in all our corn, some 15 or 20 acres.

He is well up in the 60's. Most men his age have retired long ago. In fact, we are both in good health and able to do all our necessary work. — Mrs. M. P. Henessee, Jefferson county, Iowa.



"And do you, Carol Ann, agree to cook the meals, milk the cow, feed the chickens, mend the fences . . ."

I Lowered My Feed Cost Switching to DAIRY CONCENTRATE

HAROLD E. NOE of LIME SPRINGS, IOWA, *has this to say about* MURPHY'S DAIRY CONCENTRATE:

"I began feeding MURPHY'S CUT-COST DAIRY CONCENTRATE to my holsteins two years ago and as a result, increased the herd net for the year by nearly $1,000 over the year before. This spring when I turned the cows out on pasture, I fed one pound of MURPHY'S CUT-COST per head per day. My cows are holding up in production and are keeping their flesh better than they did before I switched to MURPHY'S CUT-COST DAIRY CONCENTRATE."

ART WEAVER of CEDAR FALLS, IOWA, *says:*

"In feeding MURPHY'S DAIRY CUT-COST we have found that our nine cows have gained five gallons of milk per day with a three point gain in test right in the hottest weather, which we think is very good. We feed two cups full of CUT-COST per cow per day."

That's 20 ounces, and it costs less than 10¢ per cow per day to feed MURPHY'S.

L. A. LANCASTER of LUCAS, IOWA, *feeds* MURPHY'S DAIRY CONCENTRATE *to his herd. He says:*

"I switched my dairy herd to MURPHY'S DAIRY CONCENTRATE to lower my feed cost. I ground the grain and fed 1¼ lbs. of MURPHY'S per cow per day on top of the grain. My pasture was short due to the drought, but my cows milked better and over a longer period of time than on any other feeding program I ever tried. I recommend the MURPHY way as a way to lower feed cost, increase production and better health."

For lower feed costs, increased production and better health—switch to MURPHY'S CUT-COST DAIRY CONCENTRATE. 3

MURPHY PRODUCTS CO.
BURLINGTON, WISCONSIN

I Lowered My Feed Cost Switching to POULTRY CONCENTRATE

LAYTON WALTERS of COLESBURG, IOWA, *has a flock of 398* MURPHY-*fed Leghorns. He says:*

"We are very proud of these pullets. They started to lay when they were only 5 months old. And today we're getting 313 to 325 eggs from the flock per day and they are now 7 months old. Our birds were started on MURPHY'S READY-TO-FEED VIG-O-RAY STARTER and then continued on MURPHY'S VIG-O-RAY CONCENTRATE and our own grains and roughage. We like the MURPHY feeding program for two reasons: one—our production stays high; two—our feed costs stay low."

GUS NATH of PERRY, IOWA, *has this to say about* MURPHY'S *poultry feeding program. He says:*

"This year I housed 598 of the most beautiful and best developed pullets that I have ever raised. They were started on MURPHY'S READY-TO-FEED CHICK STARTER. At 4 weeks they were changed over to cafeteria feeding of whole oats, cracked corn and MURPHY'S VIG-O-RAY CONCENTRATE. They came into production very fast and my cash outlay for feed has been the lowest in all the time I've raised poultry. I spent $95 for chick starter and $131 for MURPHY'S VIG-O-RAY CONCENTRATE. That's a total of less than 35¢ per pullet for boughten feed from incubator to housing."

Mr. and Mrs. LEONARD WULFEKUKLE of GREELEY, IOWA, *are* MURPHY VIG-O-RAY *feeders. They say:*

"This year we bought 300 pullets. 5 months later we were getting eggs. At 5½ months, our birds are up to 80% production. Past experience has shown us they will stay there. So we're well satisfied with our low cost and high production from feeding MURPHY'S VIG-O-RAY CONCENTRATE for poultry." 4

MURPHY PRODUCTS CO.
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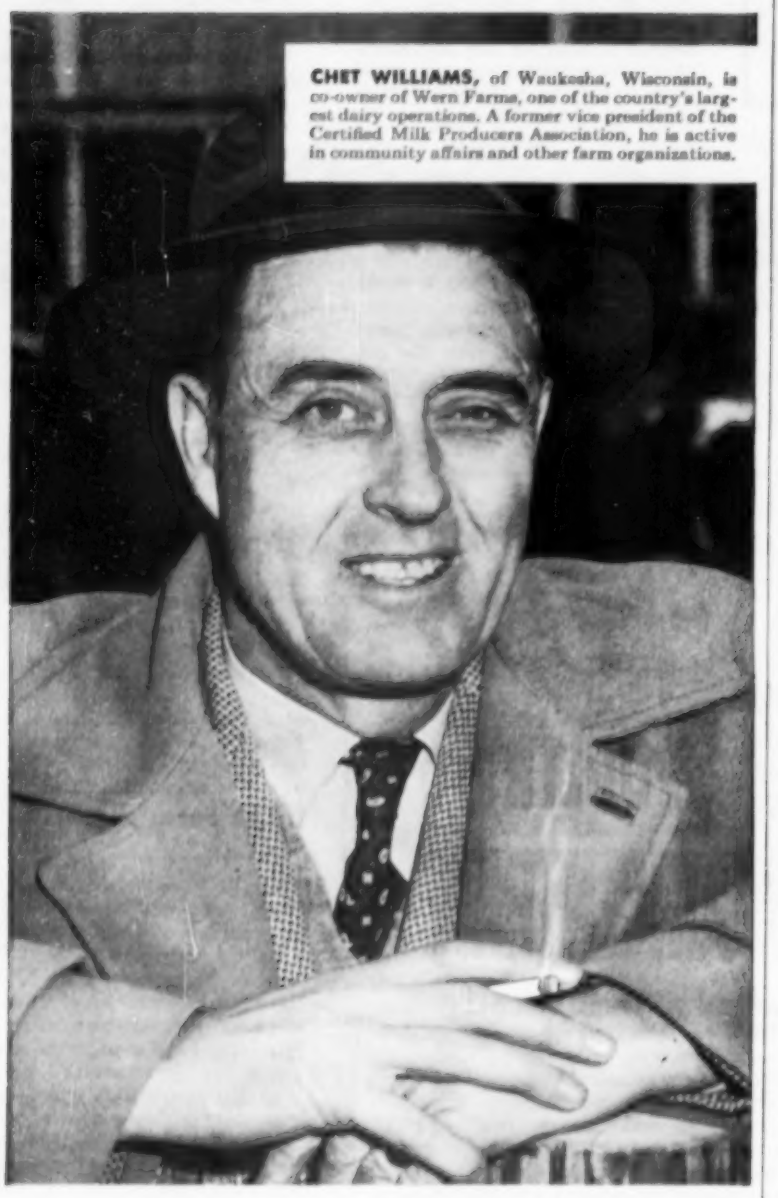


CHET WILLIAMS, of Waukesha, Wisconsin, is co-owner of Wern Farms, one of the country's largest dairy operations. A former vice president of the Certified Milk Producers Association, he is active in community affairs and other farm organizations.

"I ENJOY THE CLEAN, FRESH TASTE OF LUCKIES!"

"Whether I am out on the farm or sitting in the house after dinner," says dairy farmer Chet Williams, *"I enjoy the clean, fresh taste of Luckies. I find this good taste to be consistent."* Many millions of smokers find that Luckies taste better . . . and for good reasons. First of all, Lucky Strike means fine tobacco. Then, this tobacco is *toasted* to taste better. *"It's Toasted"*—the famous Lucky Strike process—tones up Luckies' light, mild, good-tasting tobacco to make it taste even better . . . cleaner, fresher, smoother. So, come light-up time, light up a Lucky Strike. You'll say it's the best-tasting cigarette you ever smoked.

LUCKIES TASTE BETTER

Cleaner, Fresher, Smoother!

© A. T. Co. PRODUCT OF *The American Tobacco Company* AMERICA'S LEADING MANUFACTURER OF CIGARETTES

How to avoid

Shipping fever losses

Buying any feeder cattle this fall? Then you'll find valuable suggestions in this article by Dr. John B. Herrick, Iowa State College veterinarian.

WHAT kind of cattle? How much to pay? Buy early or late? Those are some of the problems facing cattle feeders at this time of year.

And they are important questions. Yet many cattle feeders let a good share of profit slip away in the death of one or more feeders.

No matter what kind of cattle or what price you pay, it will always pay you to spend time and, if you have to, some money to avoid losses of feeder cattle.

The most common and probably the most costly disease of feeder cattle is "shipping fever" or hemorrhagic septicemia.

Shipping fever is a complex disease. It will affect not only shipped in cattle, but native cattle.

Cattle going off feed, loss of weight, labored breathing, watery eyes and nose, and failure to move around—these are symptoms of shipping fever. All symptoms may be present. Or perhaps only one or two of the symptoms may be noticed.

Prevention of shipping fever doesn't depend on use of bacterin alone. It's true that if animals are vaccinated 10 to 14 days before shipment, the severity of the disease is lessened.

But there are many other things you can do. Here are recommendations followed by experienced cattlemen:

1. When new cattle get to your farm, the main thing they need is rest. Put the cattle on pasture or in yards where they are comfortable. Then leave them alone for 24 to 48 hours. After a long ride, cattle are tired and need rest. Grass or common hay with plenty of water is enough feed for the cattle for a few days.

2. If animals show symptoms of shipping fever, don't put off treatment. Many Jones county, Iowa, feeders have their veterinarians drop by and look over their cattle each day until all symptoms of shipping fever have disappeared.

A combination of antibiotics along with sulfas or serum appears to give the best results.

It's not a good idea to go ahead and treat all new animals right away after they get to your farm. First, you run up costs. Second, many animals are damaged more by handling than they are benefited by preventive treatment. Of course, if the disease gets serious enough among your cattle, you may be justified in treating all your cattle.

3. Build a catching pen and a squeeze chute for holding and treating cattle. Your veterinarian is able to do a better and quicker job if he doesn't have to fight the cattle while he's working. And a good squeeze chute will save you a lot of work and sweat.

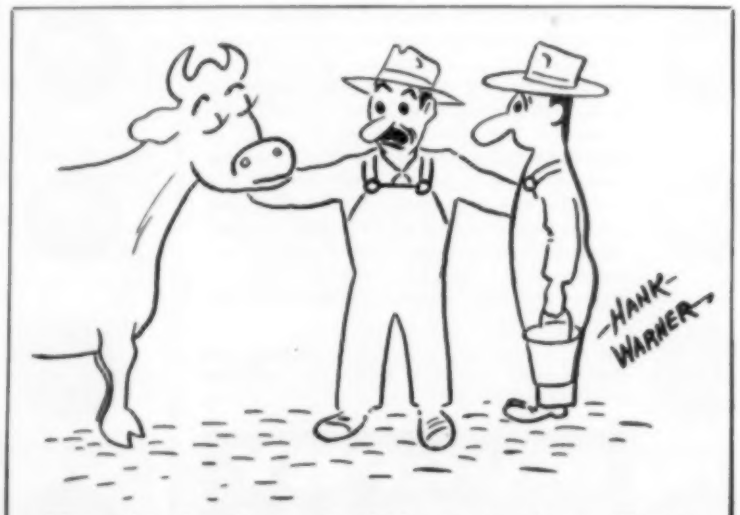
4. More and more cattle are found to be wormy. It's a wise precaution to have your veterinarian examine the droppings of your cattle to see if worms are present. Worm cattle if needed. Wormy, slow gaining calves will improve after worming.

5. If your feeders are shipped in from a drouth area, or where grass is short, they may be vitamin A deficient. Feeding a fortified vitamin supplement will prevent later outbreaks of respiratory diseases.

6. Hoof rot is a problem on many farms. Foot baths containing gunny sacks soaked with a five percent copper sulfate solution are helpful. Some feeders are having success feeding a mineral high in organic iodine.

Shipping fever isn't the only disease that affects the health of feeder cattle. Best advice can be summed up about like this:

Watch feeder cattle very carefully the first few days. If you spot a sick calf, have it treated before it loses a lot of weight. Early treatment is the secret of success in handling feedlot diseases.



"Remember the rules . . . No kicking or stomping . . . Now go in the barn and come out milked."

New way to cut feed costs, get more from home grains!

Dr. Spencer H. Morrison, one of America's leading animal nutritionists, heads the staff of Pillsbury experts who will prepare your Personalized Feeding Plan

From Pillsbury experts at no obligation, your personal farm feeding plan

Here it is: the way to end the uncertainties of feeding stock and poultry on a "potluck" basis! Now, without obligation on your part, top feeding specialists are ready to tailor a feeding program especially for your farm to help you *make sure* of better gains, lower feed costs!

Under a new Personalized Feeding Plan service from Pillsbury Feeds and your Pillsbury Feed Dealer, you can get a practical, *personal* plan for:

HOGS DAIRY COWS BEEF CATTLE SHEEP POULTRY

Think of it: a program that helps you get the most out of your own home grains, pasture, roughage . . . a program covering *any or all* your stock and flocks from their present stage to market, and also for the full life-cycle from breeding to buyer, chick to check!

How you get your plan. Your Pillsbury man visits your farm, asks to look at your stock, notes your grain supply, equipment, everything vital to a plan that fits your farm to a T! With this information, Pillsbury specialists headed by Dr. Spencer H. Morrison, one of America's leading animal nutritionists, build the *one* program that's best for *your farm*.

And it takes advantage of not just a few, but many, of the amazing new feeding discoveries. With such a program and good management, you can reasonably aim for 220-pound hogs in 5 months or less; laying hens in 4½ months; steers that yield up to $22 extra profit per head; cows that produce 1,000 to 2,000 pounds extra milk on their next lactation.

Expect your Pillsbury man to call on you soon. Let him help you switch from "pot-luck feeding" to this profit program—the new way to cut feed costs on *your* farm.

Chance of a lifetime to get a plan like this

When your Pillsbury man calls, all you do is answer a few questions. He may not reach you right away, but for profit's sake, make sure you're on his schedule!

switch from "pot luck feeding" to this profit program with...

Pillsbury Feeds

Pillsbury's BEST XXXX FEEDS

Pillsbury Mills, Inc., Feed and Soy Div. *Headquarters: Clinton, Iowa*

2 WAYS TO WORK MORE ACRES PER GALLON

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1 for fuel stretching 3-plow power

ZB TRACTOR

THREE FRONT ENDS

DUAL SINGLE ADJUSTABLE

Step up your power with this husky 3-plow ZB tractor and see how farming costs drop! You choose gasoline, LP gas or tractor fuel engines—each factory-equipped to get every penny's worth of power out of every gallon of fuel you use. There's a complete line of matched MM machines for the ZB to let you tackle every job with time-saving 3-plow capacity.

GASOLINE, DIESEL, LP GAS OR TRACTOR FUEL ENGINES

2 for lowest cost 4-plow power

UB TRACTOR

When you farm with this UB tractor, you farm with the fuel that costs you the least . . . still get a bonus of power beyond most 4-plow tractors. Gasoline, LP gas, diesel fuel and tractor fuel—there's a UB engine factory-engineered to give you top fuel economy on each. If 4-plow power is what you need, pick the extra power UB tractor—then pick your area's lowest-cost fuel.

THREE FRONT ENDS

DUAL SINGLE ADJUSTABLE

NEW UB SPECIAL

Here's 4-plow power with new hydraulic power steering, 3-way front end and a host of new tractor advantages. See the new UB Special at your MM Dealer now.

Write today for FREE illustrated folders.

MINNEAPOLIS-MOLINE
MINNEAPOLIS 1, MINNESOTA

Combination of tile and surface drainage is often the best answer in draining potholes. Accurate survey ahead of construction is important in getting a good system.

Drain those potholes

Most farmers make more money when they drain wet spots and turn them into productive land

SHARPEN your pencil and see if drainage can make those potholes pay. It has for many Iowa farmers.

Take P. J. Mart and son Harold of Pocahontas county, Iowa. Their land had several potholes that held water.

"Tile just couldn't work fast enough," points out Harold Mart. "You need to get water off crops within 24 hours. That takes surface drainage."

P. J. Mart says, "Now that we have surface drainage, tile will have a chance to do a good job of subsurface drainage."

Surface drains didn't do the whole job. Tile had to be added along the lower end of the drainage ditch.

Now the whole drainage system stays dry enough to cultivate. Slopes to the ditches were kept gentle.

"Only thing I regret," says P. J. Mart, "is that I didn't put in those surface drains 25 years ago. One crop would pay for them. The rest of the gain would have been pure profit."

John Griswold of Calhoun county, Iowa, had three potholes that damaged 40 crop acres.

He hired a bulldozer. All three "ponds" were connected and drained into a dredge ditch. Only a couple hundred feet of the ditch had to be deep. Now, heavy rains leave no water where it stood six feet deep before.

Griswold says, "One good crop in a wet year can pay for all the work."

"This drainage will make the difference between a good corn crop and late planted beans in many years," he adds.

Pothole drainage paid off for Max Gifford of Tama county, Iowa, too. His bottomland fields were nearly level. But many small low spots held water on crops too long.

He plowed the field in beds. That left ditches about every 100 feet. With a land surfacer, he smoothed out the uneven areas, leaving each bed high in the middle.

"There's little use putting tile in that land," says Gifford. Water couldn't soak thru fast enough to save crops. But I'm really pleased with the way bedding has worked out. Land that wouldn't even grow a crop of late soybeans is now producing corn."

Potholes cost you more than the crops you lose. There's the extra inconvenience of working around them. And the lost time when a tractor gets mired in the mud.

With reasonably flat land, potholes can be drained without too much work. But don't try to lay out the drainage way yourself. Be sure to have it surveyed.

Most drainage ways can be planned with gently sloping sides. Usually, this lets you farm right thru the channel.

If ditch has a drop of more than an inch or two per 100 feet, you will want to grass the channel.

Check with your soil conservation folks for more details on best drainage for your farm.

Good layout and careful maintenance can keep surface drains working effectively.

THERE'S A BIGGER PROFIT STORY IN CORN GROWING

WITH

Lester Pfister

187 HYBRIDS

High yield, controlled quality hybrids don't just happen. They are the result of year on year of painstaking inbreeding, crossbreeding and careful selection. Special methods for producing and processing must also be developed.

Lester Pfister, the man behind the famous Hybrids bearing his name, is responsible for much of this development work. He has devoted a great part of his life to more effective methods of Hybrid seed corn production as well as the planning of new and better farming practices in the growing of corn. This work will continue to go forward so that you may expect only the highest quality from seed corn bearing the famous Lester Pfister 187 trademark.

GET THE PFISTER STORY AT THE FAIR

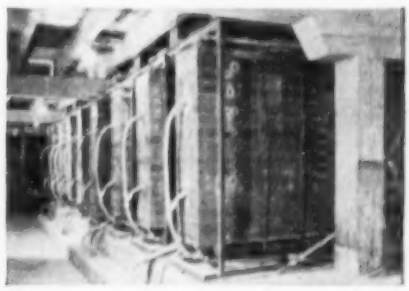
LOOK FOR Ralph Burster, Sam Clay or Kelley Thomas in the Pfister Booth in the Varied Industries Building. They will be on hand throughout the Fair to answer your questions or give any advice or information of Lester Pfister 187 Hybrids. Be sure and stop by to get acquainted.

1925-1933

Starting with open pollinated Krug corn, Lester Pfister was among the first to successfully control pollination and thus developed the strain which led to the Lester Pfister 187 Hybrids.

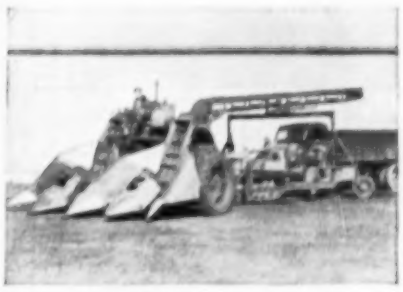
1937

Lester Pfister established the first standard grade sizes of seed that are still unchanged today. Plates used 15 years ago will still accurately plant your Lester Pfister 187 Hybrids.



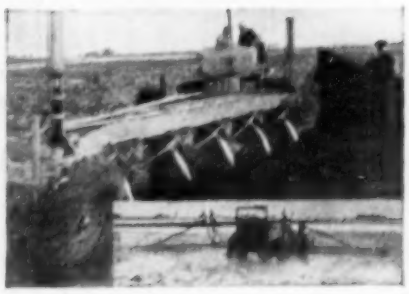
1945

Since the fall of 1945 Lester Pfister Hybrid Commercial Seed Corn has been harvested with this type of giant four row picker powered by a model D-4 Caterpillar tractor.



1955

Lester Pfister leads experiments to make land more productive. Such experiments include deep tillage to turn up depleted subsoils and thus develop 24 inch high fertility top soil through deep plowing and use of commercial fertilizers.



PFISTER CORN CO.
EL PASO ILLINOIS

PFISTER HYBRID CORN CO. The 187 HYBRIDS EL PASO, ILL.

Visits with your vet

Hot Weather Help For Hogs

The month of August usually finds both hot days and heavy hogs. This combination doesn't go together well.

During hot weather, hog raisers should keep in mind that a hog with a wet belly is a live hog. Shade, drinking water, and fresh air are just as vital during the heat as good feed.

Portable shades can be built cheaply and easily. When they get dusty underneath, you can hook the tractor on and move them. Or ground corn cobs sprinkled lightly with oil make dust free bedding.

A hog wallow made of planks will help keep hogs cool. But it is not a substitute for shade.

Check your hogs two or three times each day to see that they have enough water and that no hogs are too hot.

Another important point: Market them as soon as they get to 200 pounds.

When You Buy Your Boar

In the next few months, thousands of boars will change farms in Iowa. Some of them are going to make their new owners happy. Some of them will bring trouble to their new homes.

Here are some pointers in picking out boars:

1. Pick out your boar early. Have him home on your farm 30 days before you use him.

2. Select a boar that is more than six months old, preferably seven to eight months of age.

3. Buy from a recognized herd. It's a good idea to visit the herd during the boar's growing season.

4. If possible, buy a boar from a brucellosis-accredited herd. Otherwise, have the boar tested before you buy him and after you have him home.

5. Look over the herd closely for jowl abscesses, rhinitis, mange, and lice. Turn down any boar from a herd so infected.

6. The boar should be vaccinated for hog cholera. If he hasn't been vaccinated for erysipelas, have him vaccinated with serum alone before bringing him to your farm.

7. Put the boar in quarantine on your farm. Have him retested for brucellosis and leptospirosis.

8. Breed the boar first to market gilts to see if he will work readily when you turn him in with your breeding gilts.

9. Do not turn the boar in with your fattening hogs.

"Good old Dr. Jones . . . When he says 'Keep 'er quiet for a few days,' he means it."

Milk For New Puppies

Often people ask for a formula for new born puppies that for some reason are not nursing their mother.

One formula is canned milk mixed with an equal part of water with one teaspoonful of syrup added to each four ounces of the mixture.

The formula should always be fed at a temperature of 101 degrees. Feed at three hour intervals day and night until the puppies can be weaned away from night feeding. Baby pablum can be mixed with the milk at four weeks.

Also at four weeks, meat or commercial feed can be added to the diet gradually replacing the milk.

It's time too . . .

1. Vaccinate fall pigs. Cholera and erysipelas are year around diseases.

2. Get rid of old hens. Clean out the laying house completely.

3. Vaccinate all heifers for brucellosis when they are between six and eight months of age.

4. Prepare an isolation shed for the boar.

5. Fix lots so that feeder cattle can be kept separate from native cattle.

We think this hog raiser's got something!

Likes a milk by-product as a conditioner

I don't have skim milk to feed any more; and slop feeding whey or buttermilk is too much trouble. But still I like to give my hogs some kind of milk by-product conditioner. So this vitamin-boosted whey product in a block is the answer for me.

I like to feed a milk by-product because hogs do better. They did better with milk when rations were simple, and they still do better even with the new things like antibiotics in the ration.

To my way of thinking, whey acts as a booster for all good hog rations. It aids in preventing setbacks due to bad weather, disease and other troubles. It's got plenty of natural lactic acid in it, and that's the best conditioner I've found. Makes 'em do well from weaning to market.

Whatever the reason, hogs like to chew on Peebles' Hogblocs. They put on good solid gains, and are less trouble to raise. I wouldn't want to raise a bunch of hogs without these blocks now!

NEW WHEY-VITAMIN BLOCKS FOR HOGS! For hog

the benefits of whey but who don't like the bother

This new 50-lb. Peebles' Hogbloc is custom-built for hogs . . . can be self-fed as easily as a block of salt. It's plenty firm so hogs won't overeat . . . will withstand summer heat, winter cold and rainy weather; yet hogs can eat what they need by chewing the edges.

Peebles' Hogblocs are made of a vitamin-fortified whey compound that gives hogs the benefits of whey without the bother of slop feeding. All the conditioning effects of 60 gallons of fresh liquid whey are packed in this one easy-to-feed block. Added vitamins give it even more feeding benefits. These vitamins include B_{12}, D_2, niacin, riboflavin plus natural milk vitamins that help take the risk out of hog raising. In some ways, they help make antibiotics more effective in hog feeds.

But probably the greatest benefit of whey comes from the combined effects of lactose (which is milk sugar) and natural lactic acid. Together these materials help condition a hog's digestive system for better health and better use of feeds.

That's what makes whey-fed hogs look so slick and do so well. And it explains why hundreds of farmers go to the trouble to slop feed their hogs every day.

But with this revolutionary method of feeding whey nutrients as a block, in drylot or on pasture, hogs get the benefits of vitamin-fortified whey as they feed themselves.

Peebles' Hogblocs work especially well with automatic watering and self-feeding systems . . . because whey nutrients en-

Service bureau

No Choice About Social Security

To the Editor: Some of my neighbors — think they have a choice about social security. I don't think they do. Who is right?—N. T., O'Brien county, Iowa.

The amendments to the social security law that gave self-employed farm operators coverage benefits also made it compulsory.

If you are a self-employed farm operator, and have a net income of $400 or more in a year, you must pay the social security tax.

The Senate finance committee held hearings on the amendments to bring farmers under the program. The conclusion was this: If farmers want social security, it will have to be on a compulsory basis.

Wants Furnace Repaired

To the Editor: Our furnace needs some repairs before the heating season. Some friends were "rooked" by furnace repairmen last year. How do I pick an honest heating firm to do the work? —L. C., Howard county, Iowa.

The Des Moines Better Business Bureau advises:

1. Don't fall for the "inspector" approach when considering furnace repairs. Be sure you are dealing with an established heating firm. If you don't know the salesman or the company, ask the salesman for the names of several satisfied customers. Then check the quality of work with them.

2. Don't make hasty decisions without getting the facts. Legitimate companies will still be around tomorrow. You don't have to sign a contract today.

Stole Saddle From Former Employer

Stealing never pays. And stealing from a member of the Wallaces' Farmer and Iowa Homestead Service Bureau is poor business.

The Service Bureau recently paid a $50 reward to Max Weir of Hamilton county, Iowa. Weir furnished information which led to the arrest and conviction of Richard Delano Arnold.

Arnold answered an advertisement in a newspaper for a hired man which Weir had placed. He worked for Weir a couple of days. He then left.

Sentenced to Fort Madison, Iowa, penitentiary was Richard D. Arnold. He stole from Service Bureau member Max Weir, Hamilton county, Iowa, farmer.

A few days later, Weir's son saw Arnold's car parked down the road from the house. Later a neighbor also reported seeing a car parked nearby.

Weir checked tools, etc., to see if anything was missing. His daughter found that a saddle, bridle and martingale were gone. Weir called the sheriff. A deputy came out and got a description of Arnold.

Kearney, Nebr., authorities arrested Arnold. He was returned to Iowa for trial. When confronted with the evidence, Arnold pled guilty.

Arnold was sentenced to five years in the Iowa state penitentiary at Fort Madison. He is now serving the sentence.

Sells Eggs At Farm

To the Editor: I sell eggs which are produced here on my farm to local customers. The people come to the farm to get their eggs. Will the new egg grading law affect me?—R. C., Webster county, Iowa.

The egg grading law does not affect farmers who sell at retail eggs which are produced on their own farms. But if you buy eggs from a neighbor to supply customers, then you will need an egg dealer's and retailer's license.

Questions and Answers on Feeding New Hogbloc

Q: Do I have to change my present ration?

A: No. The whey nutrients and extra vitamins in Hogblocs act as a natural conditioner and booster. They don't replace anything you now feed.

Q: If I add whey, will my costs be higher?

A: No. Hogs will eat what amounts to about 3% of the total ration (on a dry material basis). The conditioning benefit and extra nourishment they get puts on gains faster, gets hogs ready for market earlier. One Hogbloc feeds 25 hogs for a week.

Q: What about feeding Hogblocs in winter?

A: Freezing weather does not change the consistency of Hogblocs. They can be fed the same in winter as any other time. In fact Hogblocs are "weatherproof" . . . can be fed in any kind of weather without loss.

Q: With antibiotics in hog feeds, does whey do any good?

A: Yes. The benefits from antibiotics and from whey are two different things. Both increase the feeding results more than the cost involved. In fact, indications are that whey nutrients actually stretch the benefits of the antibiotics in hog feeds today.

Q: How much feed value is there in whey compared to milk?

A: Whey is high in feed value. In fact, 100 pounds of condensed whey (50% solids) supplies as much milk albumin protein as in 900 pounds of whole milk, as much lactose as in 700 pounds of whole milk and as much milk minerals as in 600 pounds of whole milk.

This is in addition to all the valuable milk vitamins and growth factors naturally found in whey.

feeders who know of slop feeding!

courage drinking and eating for faster daily gains.

Hogblocs are economical, too. A single Hogbloc feeds 25 growing-fattening hogs for a full week.

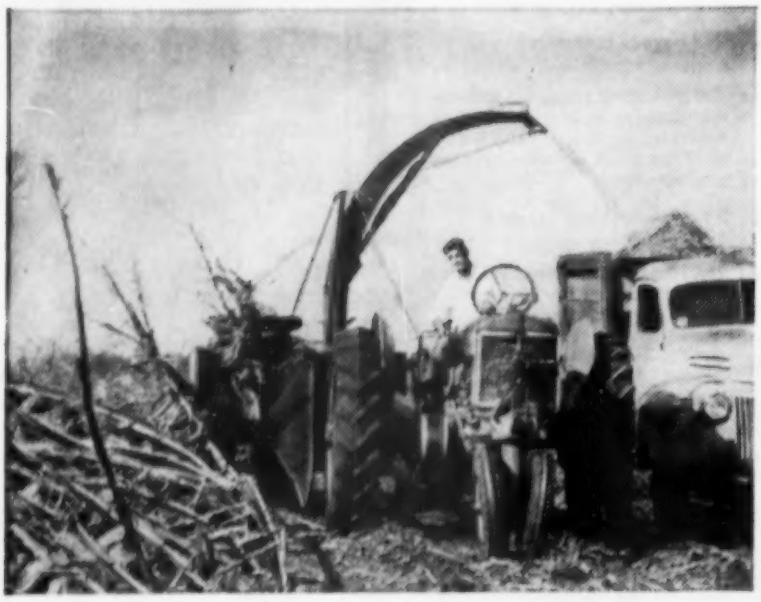
Get Peebles' Hogblocs from your regular feed dealer. They are made by the world's largest producer of whey products, Western Condensing Company, Appleton, Wisconsin.

Write for FREE folder K-8, "New Way To Feed Whey."

NEW EASY WAY TO SELF-FEED MILK NUTRIENTS FROM WHEY

Peebles' HOGBLOC

12 feet high... or knocked flat by a hurricane



—New Holland's corn head gets it all!

There's no need for special down-corn attachments because New Holland's corn head with exclusive fender design and longer snouts sweeps up row crops in *any* condition . . . as much as 24 tons an hour.

Few choppers offer the many features of the New Holland. Use of 1, 2, 3, 4, or 6 knives, exclusive Flo-Trac Feed, adjustable axles and quick change of length of cut from ¼" to 4¼" —one of the widest ranges of cut on any chopper—all these and many other features are yours on the New Holland. Machines costing hundreds of dollars more can't touch it in performance and ease of operation.

See this top-quality, yet low-cost harvester at your New Holland dealer's showroom today.

FREE! For your copy of a 16-page booklet on different types of silos plus a catalog on New Holland harvesters, write: New Holland Machine Company, 1808 Elm Street, New Holland, Pennsylvania.

NEW HOLLAND
"First in Grassland Farming"

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Iowa M.D.'s Say...

Why ear examinations are important

TOO many people in the United States have lost part of their hearing.

Many of these victims could have been spared if they had received proper ear examinations and early treatment. They would not be using hearing aids now.

One of the most prevalent diseases man has is the so-called "common cold." It is probably the most frequent disease to affect the hearing apparatus, because of the intimate connection between the throat, nose, and ear thru a small tube connecting all three.

Children are very prone to place small objects in their ears and not say anything about it. As a result, the object may not be removed for some time. This can cause infection of the eardrum and, consequently, loss of hearing.

Some people have loss of hearing due to a sticky waxy substance that forms naturally in their ears. This wax, if not removed, may completely close the ear canal and create pressure on the drum with a marked loss of hearing.

Many young children, following upper respiratory infections, are not seen by a physician until the parents notice a discharge from an ear. When this happens, the ear drum has already been ruptured and may result in a considerable loss of hearing. Likewise, the infection may spread into a group of hollow spaces behind the ear, the mastoid region, and cause severe infection and even an abscess in the brain. This condition usually results in a marked hearing loss.

Tonsils lie close to the canal or tube that connects the ear and throat. Infected large tonsils with an increase in adenoid tissue will partially close the canal or tube, and a hearing loss will result. This occurs mostly in young individuals. Removing the tonsils and adenoids will remedy this condition and save hearing.

The audiometer is an instrument used to detect hearing loss by listening to a wide range of tones. Using this instrument in school health programs, minor or major hearing defects can be found. When hearing defects are discovered in an individual, he can then be examined thoroly to locate the cause. In many cases, this can be removed and hearing restored to normal.

Not all hearing defects can be remedied. There are many, however, especially in young children, that can be corrected quite easily if treated early.

To avoid the tragedy of loss of hearing, make every effort to have all ear defects checked early. Do not depend on nature to take care of things.

Articles in this series are prepared by members of the Health Education Committee of the Iowa State Medical Society.

Help Milk Cows During Heat

Dairy cows feel the heat and humidity the same as we do. Often they show their discomfort by reduced milk production.

Many dairymen try to make up for this discomfort by letting cows graze a while in the morning after milking. Then they put them back in the barn during the hot mid-day hours.

After sundown, cattle can graze comfortably for a few more hours. Make sure tho that there is good ventilation and fly control while in the barn.

PAW TUCKER—Where's that blamed car?

A 16,000-capacity chicken feeding barn partially covered with Ceco Cross-Corrugated Roll Roofing. Notice simple roof boards on 28½" centers — no solid sheathing required.

Ceco Cross-Corrugated Roll Roofing permits installation from the top down . . . scaffolding—ladders—cleats all eliminated . . . saves time . . . safer, too. Can be applied from bottom up if desired.

Here is a pitched roof and siding installation . . . an example of the versatility and easy application of Ceco Cross-Corrugated Roll Roofing.

Ceco cross-corrugated roll roofing

with lap-sealer attached

Saves excessive lap-loss—cuts installation time one-half

If one word can describe Ceco Galvanized Cross-Corrugated Roll Roofing, it is VERSATILE . . . for never before has a building product offered so many farm uses. It can be rolled on as roofing or siding. It fills the bill for barns, chicken and hog houses . . . can be used as ratproofing for corn cribs . . . as fencing or wind breaks. It's perfect, too, for repair jobs. Since it comes in a roll you can cut off just what you need . . . don't have to store individual sheets. Put it on an entire roof with only one helper — or alone on low-pitch roofs. And while it serves in many ways, Ceco Cross-Corrugated Roll Roofing does it all at a saving of 16% to 25% on material *because there are no side-laps for the entire roll and an end-lap of only 1½"*. Roll Roofing cuts installation time one-half, too.

Consider these extra advantages:

1. One roll 30" wide by 31' long does the work of one square of sheet roofing.
2. Wind resistant since there are no side laps for the entire roll.
3. Specially crimped edges capture the strength of the corrugations and lock it into the nailing area, assuring strong bridging.
4. Made from 28-gauge galvanized steel—certified ASTM-A361 specification—zinc coated for extra long wear.
5. Comes in two sizes—full rolls 30" wide x 31' long—half rolls 15" wide x 31' long. Specially corrugated Ridge Roll made to match Roll Roofing.

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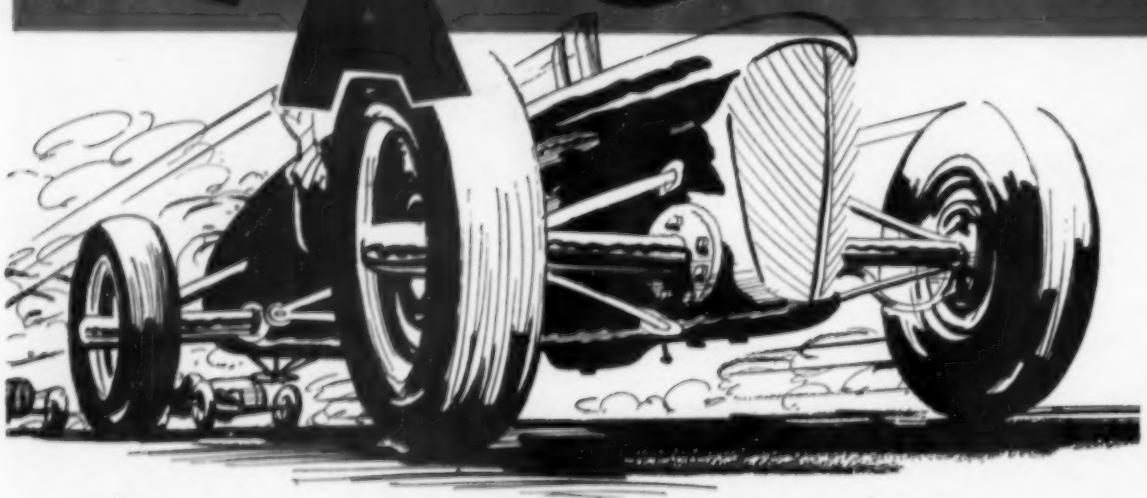
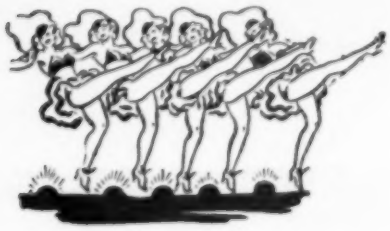


DES MOINES

Plan now for the holiday of a lifetime at this year's record-breaking Iowa State Fair. Never have you enjoyed such fun as in the miles of exposition features, the acres of thrilling exhibits, the endless excitement and stimulation of this great show of shows. Ten days and nights of the grandest entertainment in Iowa history. Plan for YOUR holiday NOW!



National Championship BIG CAR RACES

Afternoons—Aug. 28-29 **Nites—Sept. 2-5**

Two afternoons and two nights of the most terrific dirt track racing in America this year. Big, super-power cars. Famous drivers from all over America. Over 50 entries on the nation's fastest half mile dirt track. For shattering, blinding speed and thrills, this is it!

MUSICAL REVIEW

Nites—Sat., Aug. 27 thru Thurs., Sept. 1

Biggest musical hit show ever brought to the fair. Three hours of sparkling entertainment under the stars, with famous acts from stage, radio, and TV, Broadway beauty chorus, gorgeous costuming and scenic settings, thrilling musical features. All in one mammoth super-production, and climaxed by State Fair fireworks.

National LIVESTOCK EXPOSITION

Prize stock from more than 20 states . . . nearly 8,000 fine horses, cattle, swine, sheep. Nearly 3,000 head of boys' and girls' livestock. Judging rings open to the public at all times. Recognized as America's greatest livestock fair.

HORSE RACES

Afternoons—Aug. 30 and 31

Double feature horse races, with 8 harness races and 4 running races each afternoon. Over 200 horses from famous stables, battling for over $14,000 in purses. Here's racing as you really like it!

STOCK CAR RACES

Afternoon—Aug. 27

State championship modified stock car sprints, with champions of Iowa tracks competing.

Nite—Sept. 4

100 mile championship marathon, 200 laps, open to the world.

each afternoon and evening, augmenting the grandstand show. All your favorites of the sawdust arena.

FAIR

Aug. 27 to Sept. 5
through Labor Day

Championship RODEO

with

GENE AUTRY

Afternoons—Sept. 2-3-4-5
Nite—Sept. 3

Wild and wooly western competition at its best! Bronc riding, calf roping, bareback riding, Brahma bull riding, bulldogging, other western contests, with more than 150 cowboy contestants. Also Gail Davis as TV's Annie Oakley. Thrill a minute, spill a minute action as you like it.

THRILL DAY!

Afternoon—Sept. 1

One wide-open afternoon of planned calamity, featuring famous daredevils and stunt men from all parts of America. Head on collisions, autos hurtling end over end, auto leap frog, flaming wall crashes, dynamite smashups, scores of other unbelievable stunts. See it all in one searing, rending, thrill-packed afternoon!

MILES OF THINGS TO SEE AND DO

Women's exposition, fish and game, flower and garden shows, 40 acres farm machinery, farm gadgets, corn and grain show, poultry and rabbit show, what's new in farming, hall of science, cooking and canning, 10-acre midway.

CHILDREN'S DAYS

Boys and girls free at outside gates on Sat., Aug. 27 and Sat., Sept. 3, and free grandstand party in morning, with all types of circus favorites and fireworks.

FREE CAMP

125 acres wooded camp ground, with electricity, water service, every comfort.

ORDER RESERVED SEATS NOW

Mail ticket reservations today. Grandstand reserved seats $1 and $1.50. Box seats $2. Indicate date and performance desired and send order with cash or money order to Treasurer, Iowa State Fair, Des Moines, Iowa. Order yours now.

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FASTEST CUTTING SAW IN ITS PRICE CLASS

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It's a lightweight—only 22 pounds, but it's tough and loaded with the time-and-work-saving features that professional loggers demand. Four blade lengths —12" to 26" —and 15" plunge bow are available. Prices from $237.50, F.O.B. factory. Other models from $195.00.

Ask for a demonstration of the Model 73—most powerful 1-man chain saw ever built.

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See Our Exhibit at the State Fair —Machinery Section.

Feeder cattle season is getting near. Herefords were pictured on Kansas City market.

Stilbestrol is gain booster

Economy cattle supplement announced on Iowa Cattle Feeders' Day program

FARMERS who attended the Cattle Feeders' Day program at Iowa State College, August 4, got useful information on several cattle feeding practices. Three deserve particular attention.

1. New experiments were announced which confirmed last year's results on the value of stilbestrol in cattle feed.

2. A new economy cattle supplement was described which reduced supplement costs seven cents per head per day.

3. Value of corn stalk silage as a wintering ration for cattle was proved again.

As to stilbestrol feeding, college nutritionists said cattle gains were speeded up and feed costs reduced in every dry lot Iowa test.

In 10 of 11 experiments in other states, like benefits were shown with stilbestrol-fortified feed. These results were secured on yearling or larger fattening cattle.

Iowa tests, this year branched out. Stilbestrol was tried in wintering rations, pasture rations and calf fattening rations.

One test showed that stilbestrol in feed cheapened gains on yearling steers being wintered. Cost per 100 pounds gain was reduced from 23.5 cents to 16.5 cents.

This saving was made when 675 pound steers were wintered on corn stalk silage and hay. A smaller saving was made when cattle were fed a grass silage ration.

For cattle on pasture, a progress report indicated about a half pound extra gain on cattle getting no grain. But little apparent effect from stilbestrol when cattle were fed grain on grass.

Nutritionists would not draw conclusions from this test, however, until fully completed. It has run 83 days with about 90 to go.

Big question has been value of stilbestrol in rations for fattening calves. U. S. authorities have not approved feeding stilbestrol to cattle under 600 pounds. But Iowa men made a test with calves.

Results are told best by margin over feed cost when calves were graded and priced by livestock experts.

In lot one, where calves got no stilbestrol, margin per calf over feed cost was $6.39. With 10 milligrams stilbestrol per head per day, margin was $15.04. And with five milligrams per calf per day, margin per calf over feed cost was $22.63.

This test indicated stilbestrol-fortified feed will boost gains on calves as well as on older cattle. But it also showed, said C. C. Culbertson, that five milligrams per head per day may be enough for calves.

Stilbestrol is also the key to the economy cattle supplement reported on by Wise Burroughs of the college staff.

The new supplement was compared to Iowa Supplement 4, which has been the most efficient supplement developed at Iowa State College.

The big difference in the Economy supplement and Iowa Supplement 4, is that corncob meal and urea replace higher priced soybean meals. Protein equivalent is reduced from 40 percent to 28 percent.

Burroughs said the cattle getting the new supplement made gains as rapidly as those fed supplement 4. But the economy supplement cost three cents per head per day instead of 10 cents.

The nutritionists explained that cattle getting stilbestrol were able to use nutrients better. Protein in corn or other feeds may be made more available.

However, Burroughs and Culbertson say further testing is contemplated on this economy supplement before they would say it is just as good as supplements containing more protein and oilmeal.

Other tests announced to the Cattle Feeders' Day visitors confirmed previous favorable reports on the value of corn stalk silage (stalks without ears) as a low-cost wintering ration for cattle.

WHO

Farm Service Director

HERB PLAMBECK

Gets Behind Iron Curtain

You've been hearing about the twelve American farm experts who are touring Russia, while the twelve Russian farmers study American agriculture in Iowa.

We of WHO are tremendously proud that our own Herb Plambeck was chosen as the ONLY radio farm news man to accompany the American delegation to Russia. He's taking pictures and making on-the-spot recordings. You will be able to hear these on WHO. His material will be available to NBC, ABC, CBS, MBS, Clear Channel Broadcasting Service and the U. S. Department of Agriculture.

You can imagine the pressure that must have been used by every sort of medium, for representation on this trip. WHY WAS HERB SELECTED? Because, in addition to being the favorite farm commentator in America's most productive farm area, he was recommended by the U. S. Department of Agriculture and by the nation's three largest farm organizations—The American Farm Bureau Federation, the National Grange and National Farmers' Union (also by the National Association of Radio and TV Farm Directors, and other groups).

Herb's Russian tour is a tremendous "plus" for WHO listeners and advertisers. It's the sort of "plus" you always expect—AND GET—from Iowa's most important station.

WHO dial 1040 WHO-TV Channel 13

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- EASY ON YOU. Exclusive Three-Speed Winch operates in an oil bath, making raising and lowering something a child can do. Exclusive Giant Clock Springs make raising and lowering the hopper a finger-tip operation.
- GREAT STRENGTH. Durable sections joined together like bridge girders—absolutely prevent sagging. Double chain drive and special ribbed flights provide easy and steady handling regardless of load.
- SPECIAL GALVANIZING. Longer lasting because the Valley is galvanized by a high heat process that actually fuses the protective zinc coat into the sheet steel.
- ADVANCED DESIGN. Wide baled-hay elevator rests on seven-foot wide automotive-type transport. All operating parts shielded for safety. Rollers replace sprockets in head section to prevent clogging.

Costly chain breakage is virtually eliminated by spring shock absorbers that protect the double chain drive.

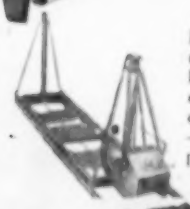
Hopper Lifting is Easy.
Concealed, exclusive, heavy-duty clock-type spring makes raising and lowering the hopper a finger-tip operation.

Exclusive Three-Speed Winch
Operates in an oil bath, making raising and lowering the elevator something a child can do.

VALLEY HYDRAULIC LOADER

Every Modern Feature for Every Modern Tractor Chrome plated double acting cylinder power both up and down with speed and ease. Formed steel arms with non-breakable steel castings at stress points—capable of lifting 3500 lbs. Die stamped non-clogging bucket virtually eliminates clogging. Streamlined design gives maximum strength without blocking your view. Fits either wide front end or row crop tractors.

VALLEY WAGON HOIST



Handles heavy loads. Extra rugged construction with non-breakable steel castings at stress points. Roller bearing equipped throughout for smooth steady operation. Fingertip and remote control. Operates from either side with built-in speed jack. Drive it anyway—electric motor, gas engine or speed jack using belt pulley. Fully shielded gearbox for safety.

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VALLEY Manufacturing Co., Valley, Nebr.

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Manufacturers of Highest Quality Hydraulic Loaders, Wagon Hoists, Universal Joints, Tillers and Self-Propelled Sprinkler Irrigation Systems.

Top quality livestock and nationally recognized judges—there's a combination that makes for exciting, highly competitive livestock shows. Scene is from last year's State Fair hog show.

It's a family fair

Livestock, machinery, women's exhibits—There's fun for all at Iowa State Fair

Farm machinery exhibits interested the Carl Shook family of Guthrie county, Iowa, at the 1954 Iowa State Fair.

Terry, son of Mr. and Mrs. James Gfeller, Polk county, Iowa, watches John Claussen, Scott county, Iowa, get his Spotted Poland China ready for showing.

From Black Hawk county, Iowa, Ralph Creswell; son John, six; and Darrell Kyer inspect a water fountain at last year's State Fair. Meanwhile, Mrs. Creswell and Mrs. Kyer were looking over women's exhibits.

THE 1955 CHEVROLET DELRAY *features club coupe styling, sedan roominess, and a washable all-vinyl interior that's made for family wear.*

A CHEVROLET DELRAY doesn't mind dusty overalls . . . or the children's feet . . . or a few boxes of tomatoes piled onto the back seat. Its handsome, hardy all-vinyl interior wears like saddle leather . . . and rides about seventeen times softer. It's easy as soapsuds to keep it looking new. This is one car you can take soap and water to *inside.* Like other Motoramic Chevrolet models, the Delray has that nice uncluttered look about its styling. Sweet and simple, and as clean as sunlight. Tie that to one of the new engines (either a six, or the 162-horsepower V8 or the 180-horsepower V8) and you've got a car to be proud of. Many of the things you'll especially like about your Chevrolet—outrigger rear springs, Anti-Dive braking, a big 12-volt electrical system—are features that a lot of other cars wish they had. Your Chevrolet dealer's the man to see. . . . Chevrolet Division of General Motors, Detroit 2, Michigan.

Stealing the thunder from the high-priced cars!

The
motoramic
Chevrolet

'Stilbosol' Digest

Use of 'Stilbosol' is widespread. Less than six months after introduction, shipments of 'Stilbosol' were being made to feed manufacturers in 42 states. Cattle feeders have been quick to appreciate the extra gains and lower costs of gain as well as the excellent carcass quality of cattle fed supplements fortified with 'Stilbosol.'

Glenn Stillabower
Edinburg, Indiana

Glenn Stillabower, who feeds cattle on his farm near Edinburg, Indiana, tested the gain-boosting power of 'Stilbosol' in his own feedlot. He got a 3.38-pound daily gain when he fed a supplement fortified with 'Stilbosol' to his Angus steers.

"This bunch of steers ate more, stayed on feed better, and gained faster than any cattle I've ever fed. That's what convinced me," declared Mr. Stillabower. "I plan to feed a supplement with 'Stilbosol' to my market cattle in the future, including my younger steers. I'm convinced it has helped my cattle make faster and cheaper gains throughout the entire feeding period."

Sell more pounds of high-quality beef. Since cattle fed 'Stilbosol' gain more rapidly, they'll finish out at heavier weights. As before, cattle should be finished to usual grade for best prices. Feed your cattle for the same length of time as you did before using 'Stilbosol' and sell more pounds of quality beef.

Floyd Clausen of Spencer, Iowa, has purebred Shorthorns and also feeds 100 head of cattle a year. This year he fed a supplement with 'Stilbosol' to two groups of cattle. Of special interest, he bought 50 old cows off western range, fed them 100 days and got 2½ pounds average daily gain on each of them.

"Because of my experience with it, I have neighbors who are now using feeds with 'Stilbosol.' I've had the best gains of anything I've ever fed," said Mr. Clausen. "I'm 100% for it."

"My steers gained an extra half-pound a day with 'Stilbosol,'" reports Mr. J. N. Wilkinson, who operates Granite Dells Ranch near Prescott, Arizona. Mr. Wilkinson is one of the few ranchers in his area who also fattens out cattle right on his own ranch.

J. N. Wilkinson
Prescott, Arizona

This spring, he saw the gain-building, cost-cutting benefits of 'Stilbosol' at work in his own feedlot. Mr. Wilkinson put 75 Hereford steers on feed. He used the same type cattle and rations as in previous years except that 'Stilbosol' was included in his beef-fattening supplement. His steers each averaged 2.76 pounds gain per day. That's one-half pound extra gain . . . or about 23% more than in former years.

"I was very well satisfied with my first experience in feeding a supplement with 'Stilbosol,'" Mr. Wilkinson related. "Usually I expect to get a daily gain of 2 or 2¼ pounds and had always considered that satisfactory. With these steers, I got a half-pound more daily gain per head. They used less feed per pound of gain, which also helped cut their cost of gain."

'Stilbosol' is Eli Lilly and Company's trademark for Diethylstilbestrol Premix, Lilly. 'Stilbosol' is the only such premix compounded under license from the Iowa State College Research Foundation, Inc.

Stilbosol

(Diethylstilbestrol Premix, Lilly)

Lilly

ELI LILLY AND COMPANY
AGRICULTURAL PRODUCTS DIVISION • INDIANAPOLIS 6, INDIANA

Buying a ram from the "Rambling Ram Truck," R. W. Moses of Story county, Iowa, checks the animal thoroly. Eugene Francis, of Iowa State College, is holding the ram.

Breed ewes to good ram

"Rambling Ram Truck" helpful to owners of small ewe flocks

BREED your ewes to a good mutton-type ram. He'll pay for himself in faster-growing, top-value lambs.

That advice comes from Eugene Francis, extension sheep specialist at Iowa State College.

Even if you keep only a small ewe flock as a "clean-up crew" and sideline operation on your farm, it pays to use a good ram.

If you live in the northern part of Iowa, you'll have a chance at good rams again this fall when the "Rambling Ram Truck" comes thru your area. It'll stop at about 15 different places—in areas where farmers keep small ewe flocks as a sideline.

The ram truck was originated in 1939 to help small flock owners get high quality rams to aid in producing high quality lambs. It's sponsored by the Iowa State Sheep Association and the agricultural extension service of Iowa State College. Your county extension director can tell you when the ram truck will be in your area.

The truck brings good rams produced by purebred breeders (mostly in southern Iowa) into the small flock areas of northern Iowa.

Since 1939, the ram truck has sold more than 1,100 purebred rams to flock owners. Improved quality of lambs produced in small flocks has resulted.

George Auld, head lamb buyer for a Cedar Rapids, Iowa, packing plant, says he has noticed improvement in quality of lambs delivered to his plant since the ram truck first came to the Cedar Rapids area five years ago.

Success with rams from the truck has stimulated sales in succeeding years. Repeat customers are common, says Francis.

Francis and Dewey Jontz, of the Iowa State Sheep Association, usually go along with the ram truck. They appraise rams and supervise sales—which are made by private treaty.

Only high quality rams are accepted for sale from the truck. And they must be guaranteed by the producer.

When the truck visits your community, you have a chance to compare rams of different breeds—as well as different breeding within breeds. At least 20 rams are available at each stop.

Francis thinks the Rambling Ram Truck can be a big help to the many farmers who are just beginning to recognize the profit possibilities in a small sheep flock.

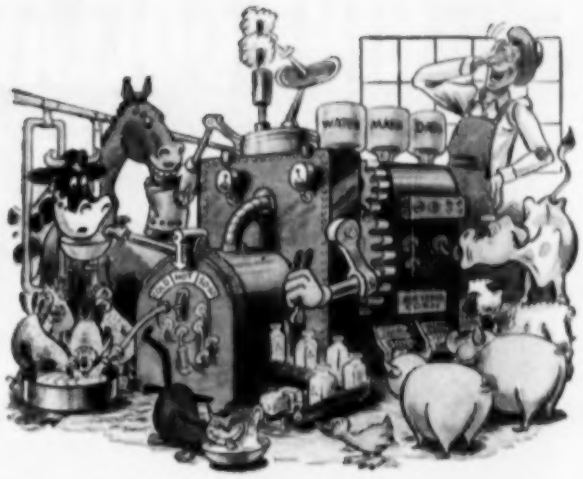
The biggest increase in sheep numbers in the nation has been taking place during recent years in the Corn Belt, Francis points out. Iowa now ranks second among the states in the number of sheep per square mile.

Of course the ewe flock still is "supplemental" on most Iowa farms. Probably its value always will be as a sideline—a fill-in for Iowa's corn-pork-beef farming.

But as it becomes more important to increase income per farm unit, the "clean up" value of a small sheep flock will attract more farmers, Francis believes.

No Matter What
They Dream Up Next—

It's Time NOW to...



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Special Future Order Plan for '56

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Liberal Discounts—from list prices on famous Mobil Farm products are available when you order your 1956 farm lubrication needs in advance.

SAVE

Price Protection—If prices rise before delivery, you pay the lower price. If they fall, you pay the lower price.

SAVE

Top-Quality Products—give your farm equipment the finest lubrication protection possible—save on wear and repairs. Mobiloil—the super-detergent heavy-duty oil . . . Mobilgreases—stay put even under shock loads . . . Mobilube Gear Lubricants—guard against scuffing wear. There's a Mobil Lubricant for every farm need. Save in '56—order today sure.

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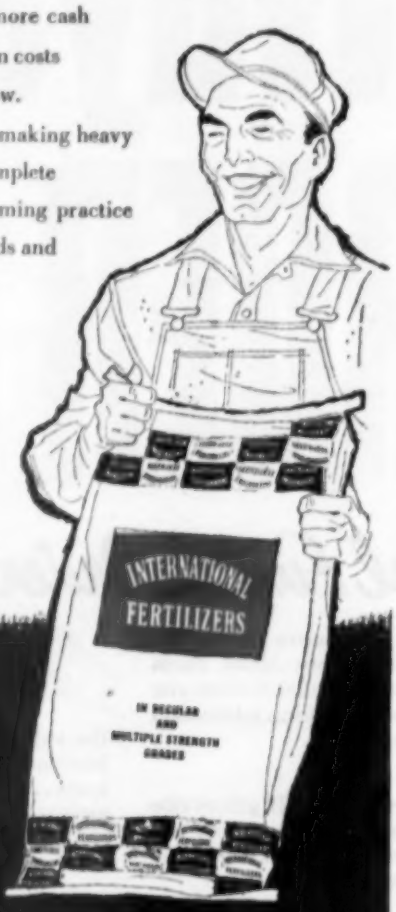
NINE DOLLARS
EXTRA PROFIT PER ACRE
OR MORE
ON CORN
by fertilizing according to recommendations

You'll see corn yields and *profits* move up when you follow state-recommended practices for fertilizer use. Even if prices drop . . . even in dry weather . . . even with reduced acreage, you will pocket more cash because well-fertilized corn costs much less per bushel to grow.

Any way you look at it, making heavy applications of quality complete plant foods is a sound farming practice that pays off in higher yields and more net profit.



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12-12-12 10-20-10

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$5.00 profit per acre from small grains

Yields of wheat, oats and other small grains climb and unit production costs drop when you use recommended amounts of fertilizer. Earn up to $5.00 *profit* or more per acre in addition to getting a better seeding of grasses or legumes.

Get the most out of your fertilizer program by using high quality, dependable *International Fertilizers*. These well-balanced plant foods are properly conditioned for easy flowing application and available in crop-producing regular grades and the super-power multiple strength analyses as locally recommended.

See your *International Fertilizer Dealer* now for *Satisfaction at Harvest Time.*

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GENERAL OFFICES: 20 North Wacker Drive, Chicago 6. DISTRICT SALES OFFICE AND FERTILIZER MANUFACTURING PLANTS at Mason City, Iowa, and Chicago Heights, Illinois.

Effective method of controlling flies on cattle is shown above. Burlap-wrapped cable is soaked with solution of five percent DDT or methoxychlor in fuel oil. Tank on commercially made back rubber at right can be filled with the same solution. Photo was made on the Blythe Conn farm in Des Moines county, Iowa.

Are you killing the flies?

Don't expect a "one shot" attack to take care of all fly problems

HOT weather doesn't slow down the flies. If anything, they seem to work harder. So this is no time to slack off on your fly control program.

Dry fly-killing baits—new to many farmers this season—have given a big boost to fly control in and around farm buildings.

"They're the best thing we've ever had to kill flies," declares a Clinton county, Iowa, farmer. He says the dead flies pile up around the baiting areas in his barn.

Nice thing about the dry baits is that they're easy to work with. Just sprinkle the stuff on window ledges or other places where flies will find it. And let the flies treat themselves.

Dry baits containing malathion, dipterex or diazinon will kill the flies that are resistant to DDT.

Residual sprays like DDT, lindane and methoxychlor are still recommended for killing flies in and around buildings. But on some farms, flies have developed resistance to those insecticides. In that case, the baits may solve your problem. Or you may want to spray barn walls with malathion, diazinon or dipterex. Those insecticides kill resistant flies.

One point to remember is this: Neither diazinon nor DDT are approved for use inside dairy barns.

But spraying buildings and using baits won't keep all the flies off your livestock. Reason: Some of the biting flies stay with the animals. They don't spend much time around buildings.

And those biting flies are the ones that really slice livestock profits. Studies show that horn flies, for example, can cut beef gains by one-fourth pound per day. They can cut milk production 10 to 20 percent.

Only way to protect cattle from those biting flies is to treat them with any of several insecticides.

Daily application of pyrethrin sprays gives good protection from flies. But it's a time-consuming job. To make daily spraying easier, some farmers are using fogging devices. In two or three minutes, they can spray cattle and kill flies in the barn.

And some farmers, like Hervey DeWees of Linn county, Iowa, are using treadle-type sprayers. They let cattle spray themselves as they pass thru the sprayer twice a day.

DeWees installed his automatic sprayer in the doorway of his dairy barn early this summer. For him, the sprayer eliminates the big job of hand spraying 40 head of cows twice daily.

To control flies around buildings, DeWees also sprays the interior of his barn with lindane every seven to 10 days.

DDT and methoxychlor also control the flies that bother cattle. Research indicates that biting flies do not develop resistance to those insecticides — as do house flies.

DDT, however, is not approved for use on dairy cows or on beef cattle within six weeks of slaughter.

If you're using those insecticides, you'll protect cattle by spraying them every 10 days to two weeks. Or you can let cattle treat themselves by providing rubbing devices which are saturated with the insecticides.

Commercially made rubbing devices are on the market. Or you can make your own. Just hang a burlap wrapped chain or cable between two posts so that the center of the cable is about 18 inches from the ground. Then saturate the burlap with a solution of five percent DDT or methoxychlor in fuel oil every few days.

Here's how your **WAYNE FEED DEALER** *can help you get...*

More and Better Eggs!

CASH IN on the fast-growing demand for *quality* eggs . . . the kind that bring *top prices*. Your Wayne Feed Dealer can help you . . . with high-efficiency Wayne Egg Feeds and the valuable "Aids to Higher Egg Quality" shown below. Also, he has for you the *egg quality practices as recommended by the Institute of American Poultry Industries*, contained in this–

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EGG QUALITY HANDBOOK

Pictures and explains *approved methods* of gathering, storing and grading your eggs for *best prices* . . . as well as 4 easy ways to boost your egg *production*.

SEE YOUR WAYNE DEALER NOW FOR VALUABLE

"Aids to Higher Egg Quality"*

*AT SPECIAL LOW PRICES WITH PURCHASE OF ANY WAYNE EGG FEED

Plastic Coated
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$3.00 Value! Heavy wire, with thick, tough plastic coating. Won't mark eggs. Helps you gather and cool eggs quickly, correctly to protect quality. Holds 15 dozen.

Hanging
Flock Feeder

$3.95 Value! Newest idea in feeders! Rugged galvanized steel construction. 24" high. Holds 50 lbs. Saves floor space. Simple, easy to move, adjust and clean.

Accurate Egg
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$2.60 Value! Easy-to-read colored dial shows accurate weight of individual eggs as well as weight per dozen. Also a handy grader. Used by thousands of producers.

Egg Room
Thermometer

Designed specifically for egg storage rooms by Inst. of Amer. Pltry. Industries. Egg handling directions printed on face. Signals correct temperature limits.

Attractive
Egg Cartons

Specially designed by leading U.S. carton mfr. Strong, sturdy, protects against egg breakage. Easy to set-up and close. Positive locking. Packs 30 dozen to standard egg case.

Handy Egg
Cleaning Brush

60¢ Value! New plastic design with sponge rubber cushion for less egg breakage and faster cleaning. Whisks dirt from eggs to avoid price discounts.

FOR SPECIAL LOW PRICES ON THESE AIDS . . . MENTION OR TAKE THIS AD TO YOUR WAYNE DEALER

YOUR CHOICE OF

7 High Efficiency Egg Feeds!

MASH-SCRATCH: Feed *Wayne Egg Mash* 50/50 with farm grains. Nutritionally balanced. No mixing or grinding necessary.

ALL-MASH: Feed *Wayne Universal Egg* straight from bag. Complete. Every bite balanced. No scratch grains needed.

NOON FEED: Feed *Wayne 26% Egg & Breeder* on top regular feed. No moist mash needed. Boosts feed intake, holds body wt.

CAGED LAYERS: Feed *Wayne Cage Layer*. Special formula meets needs of high producing hens under exacting conditions.

BREEDERS: Feed *Wayne Breeder Mash* to flocks held for producing hatching eggs. Start feeding 30 days before saving eggs.

TROUBLE SHOOTER: Feed *Wayne H-A-D Krums* (High Antibiotic Diet) Boosts appetites & feed intake at times of stress.

CONCENTRATES: Let your Wayne Feed Dealer tell you how to use *Wayne Poultry Mixer* if you have abundant grain.

WAYNE FEEDS

ALLIED MILLS, INC., Executive Offices: Chicago 4, Ill. Service Offices: Ft. Wayne 1, Ind.

Tested and Proved by Wayne Research Farm Division and Thousands of Users

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NEW HOG SUPPLEMENT helps make up for late farrowing

SurePork 35 cuts weeks off average time to market!

• If your pigs farrowed later than usual last spring, Larro SurePork 35 offers new help in cutting time to market.

This powerful new supplement, developed by General Mills' research in testing over 800 formulas, has already proved it can beat U. S. average time to market by as much as 80 days. The price figures above illustrate why this can be important to you.

Larro's new SurePork 35 stimulates faster growth because it supplies the exact combination of nutrients that hogs need to grow and fatten their best under practical farm conditions.

It contains health-giving vitamins, new growth-promoting antibiotics and high-quality proteins that help hogs get maximum benefits from home-grown grains. In addition, SurePork 35 supplies Larromin, an exclusive mineral formula that ends the need for special mineral feeding. Builds sound bones, strong backs and good blood.

YOU'RE MONEY AHEAD WHEN THEY'RE LARRO-FED!

New Larro SurePork 35 is now available from your Larro SureFeed dealer. Use it to help make firm pork fast — cut time to market — and produce an extra profit over feed cost.

Seeing is believing!

Hog raisers say: *"You've got to feed Larro SurePig to believe the results."* Even timid, runty pigs fight for its candy-like palatability . . . catch up fast. Creep feed this new formula. See for yourself.

General Mills, Inc.
MINNEAPOLIS 1, MINNESOTA

SP-2-5

1 Remove one spadeful of soil. Then cut an inch-thick slice to a depth of about six inches.

2 Put the center portion of slice into a pail. Repeat with other subsample from same area.

How to take soil sample

3 Give subsamples thoro mixing. Fill a sample box with the mixed soil. Number the box.

4 Fill in information sheet as Jack Frandson of Story county, Iowa, is doing here. Send samples and sheet to soil testing laboratory.

Take your

soil samples

in late summer

LATE summer—now—is the best time to take soil samples.

You can do the soil sampling job yourself. But you want to remember that the soil test can be only as accurate as the sample. It has to represent the whole area sampled.

Iowa State College agronomists have six suggestions for taking soil samples:

1. Get instruction sheets and boxes for mailing samples from your county extension director. The instruction sheet tells in detail how to get accurate samples.

2. Pick out areas in the field where soil is pretty much alike in color, slope and other factors. Take several subsamples in each area of similar soil.

3. Mix all the subsamples from one area. Fill one sample box with this "mixed" sample. Number the box. And mark a map of the field with the sample number and show the area from which it was taken.

4. After sampling field, fill out the information sheet. This calls for information on cropping history, past use of fertilizer and similar information. This is important to the specialist who makes the recommendations.

5. Mail samples and information sheets to the soil testing laboratory.

6. When results come back, talk them over with your county extension director.

Most recommendations are made assuming you are most interested in a high dollar return for the money you put into fertilizer. A higher rate is likely to give you the most profit per acre. Let your extension director help you decide which one is for you.

You get a lot for your money in a soil test. The $1.50 charged for each sample is mighty small compared to your fertilizer bill. It just about covers cost of making the tests.

Four regular tests are made on each sample—(1) acidity or lime need, (2) available phosphorus, (3) available potassium, and (4) available nitrogen. These are major factors in growing top yields.

Soil testing really paid off for Jack Frandson of Story county, Iowa. He followed fertilizer recommendations made by county extension director C. J. Gauger.

He used good management practices—thick stands, insect control, and the like—to give fertilizer the best chance to boost yields.

Frandson wanted to see how much fertilizer helped. So he left check strips.

Now he knows that 60 pounds of nitrogen per acre gave about 40 bushels increase in corn yields last year. This year, carryover nitrogen boosted oat yields enough to pay for all nitrogen that was applied for the corn.

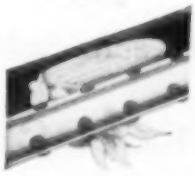
Frandson had been using phosphate for his seedings. But soil tests showed a need for potash. It was included in the treatment. The result was better oats. And "clover so thick you can hardly walk thru it," according to Frandson.

New 33 *Corn Harvester*

• More kernels on the ears
• More ears from the field

The 2-row mounted 33 Corn Harvester brings you a new kind of "self-propelled" husking. There's a real corn-saving difference in its BIG SIX features.

3 *new big-performance features*



RUBBER-ON-RUBBER HUSKING
52 rubber plugs fit into matching recesses for Sure-Grip husking . . . faster, cleaner, less shelling.

NEW ROTARY FEEDERS
They keep ears flowing uniformly over the husking rolls. Anti-clogging . . . Cleaner husking.

NEW QUICK-ADJUSTABLE STRIPPER PLATES
Handy lever at tractor seat now adjusts outer stripper plates to changing stalk and ear sizes. Easier! Safer! Saves time and ear damage! No wrenches!

3 *always-wanted advantages*

EASY ON — EASY OFF
without a hoist.

SAFEST PICKER BUILT —
Low and shielded — better traction — easier steering.

LOWER FIRST COST — LOWER UPKEEP
Simpler — fewer working parts.

See the new 33 Corn Harvester now. Ask your Allis-Chalmers dealer to show you the big-yield picking features of this quick-mounted Corn Harvester for WC, WD and WD-45 Tractors. And the price is only $1,185, complete with attaching parts, f.o.b. factory.

FARM EQUIPMENT DIVISION, MILWAUKEE 1, WISCONSIN

2-row mounted, 1-row pull-type CORN HARVESTERS

ALLIS-CHALMERS

Give "Mike," the Soil Microbe, UREA 45 now and he'll build better soil for bigger crops!

"Mike" works better when he's well fed!

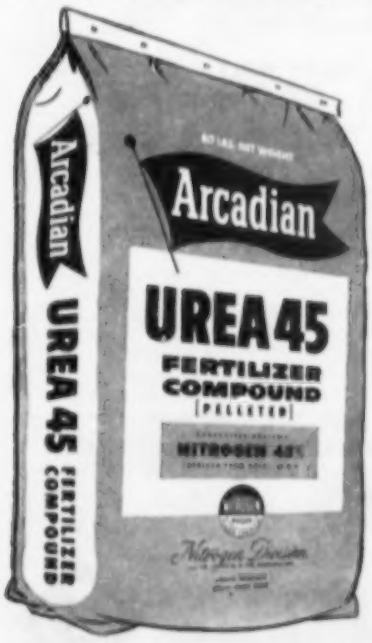
Some of your best farm workers are underground. Billions of microbes are busy in every square foot of your soil. Feed these tiny workers plenty of ARCADIAN® UREA 45 now to help them do a faster, better job of filling your soil with nitrogen-rich organic matter.

ARCADIAN UREA 45, plowed down this fall, stimulates microbes to chew and digest tons of stubble, straw, roots and sod. These crop residues are high in carbon, and contain phosphorus, potash and other important elements needed by microbes and crops alike. But the fibrous material is low in nitrogen needed by microbes to break it down into valuable organic matter.

You can't find a better form of solid nitrogen for this important fall job than UREA 45. Plow it under now and it enables microbes to work fast before cold weather, transforming coarse stubble and stalks into desirable organic matter that improves soil condition and feeds your crops better. The firm, dry pellets of UREA 45 spread quickly and easily from ground equipment or airplane. Every easy-lifting 80-pound bag gives you 40 to 100% more nitrogen than other dry nitrogen fertilizers.

You benefit two ways from quick-acting, long-lasting UREA 45. It dissolves quickly in soil moisture so microbes can thrive on it. What they don't use in building organic matter stays locked to soil particles to feed crops next spring. You also save work in your spring rush season, when you use UREA 45 now.

ARCADIAN UREA 45 is also an excellent top-dresser for winter grains and pasture. It supplies needed nitrogen quickly and continues to provide nitrogen growing power for months. UREA 45 assures extra weeks of green, nutritious fall grazing, and builds strong, vigorous stands of winter grain for a head start toward top yields.



See Your ARCADIAN Supplier. Ask for prompt delivery of your ARCADIAN UREA 45 for plow-down and top-dressing this fall. Ask also for free literature, or write to the nearest address below.

NITROGEN DIVISION
Allied Chemical & Dye Corporation

New York 6, N. Y. • Hopewell, Va. • Indianapolis 20, Ind. Ironton, Ohio • Columbia 1, S. C. • San Francisco 3, Cal. Omaha 7, Neb. • Atlanta 3, Ga. • Los Angeles 15, Cal.

Again this year, some of the nation's fanciest livestock will pass thru this entrance to the huge livestock pavilion on the Iowa State Fair grounds.

Busy week in showrings

Livestock judging will build up to a Saturday afternoon climax

IF A high point were to be singled out of the 10-day Iowa State Fair, a lot of folks would vote for Saturday afternoon, September 3.

That's when the grand champion baby beef and the grand champion market barrow will be named. That's the climax of a week's bustling activity in the fair's livestock showrings.

And you can bet that there'll be plenty of excitement and suspense in those showrings. For some of the nation's top show strings have been attracted by one of the largest cash premium lists in State Fair history.

Cattle exhibitors will be competing for $47,370 in prize money. Swine division premiums total $21,410. Horse breeders will take home $27,000 in prize money. And cash awards in the sheep division amount to $8,440.

(Continued on next page)

State Fair schedule . . .

Livestock judging

BEEF CATTLE: August 31—Aberdeen Angus, Hereford. September 1—Shorthorn and Polled Shorthorn national shows.

DAIRY CATTLE: August 29 and 30—Milking Shorthorn, Jersey, Ayrshire. August 31—Holstein. September 1—Guernsey, Brown Swiss.

SWINE: August 29—Poland China, Berkshire, Yorkshire, Hereford. August 30—Duroc, Hampshire, Tamworth. August 31—Chester White, Spotted Poland China. September 3—Market Barrows.

SHEEP: August 28—Sheep Shearing Contest, Sheep Dog Trials. August 29—Hampshire, Suffolk, Southdown. August 30—Shropshire, Cheviot. August 31—Corriedale, Oxford Down, Columbia, Montadale. September 3—Grading and placing fat lambs.

HORSES: August 29 and 30—Belgian horses and draft mares and geldings. Evenings, August 31 thru September 5—National Shetland pony congress. September 5—Quarter horses and stock horses.

JUNIOR LIVESTOCK: September 2—4-H and FFA beef and dairy heifers, 4-H and FFA swine, 4-H and FFA purebred sheep, 4-H colts, 4-H and FFA market litters. September 3—4-H baby beef, 4-H market barrows, 4-H fat lambs, FFA fat lambs.

Top names among judges

(Continued from last page)

In addition to those open class awards, 4-H livestock exhibitors will compete for $20,210 in prizes. And the FFA premium list in livestock classes totals $8,146.

Some of the top names in the livestock will be on hand to "tie the ribbons."

Prof. P. S. Shearer, of Iowa State College, and W. J. Probert of Cedar Rapids, Iowa, will have the job of selecting the grand champion baby beef.

A committee of three judges—Lou Thompson of Waterloo, Iowa; Deane Rinner of Cedar Rapids, Iowa, and Dale Williams of Iowa State College will name the grand champion market hog.

Other outstanding judges to work the fair dairy and beef cattle shows include: Herman Purdy, Pennsylvania; Redford Gardhouse, Canada; John Hudson, Maryland; A. D. "Dad" Weber, Kansas (Mr. Weber has judged the International Livestock steer show for the past few years); Joe Hunter, Kansas; L. V. Wilson, Minnesota; John Fawcett, Missouri; William McKerrow, Wisconsin; E. N. Hansen, Illinois (former head of Iowa State College dairy husbandry department), and W. S. Watson, Kansas.

Swine judges include: Herman Helgens, Monticello, Iowa; Wilbur Plager, Des Moines, Iowa; Art Jordan, Ohio; Leon Frantz, Grand Junction, Iowa; J. C. Hillier, Oklahoma; Bob Faint, Blairsburg, Iowa; Arthur Anderson, Ames; E. B. Moore, Indiana; Tom Conover, Holstein, Iowa, and Carroll Plager, Minnesota.

In the sheep division, the judges are: Wilbur Renk, Wisconsin; Glenn Chappell, Missouri; E. H. Mattingly, Missouri; L. M. Kyner, Waterloo, Iowa; Bill LaGrange, Iowa State College, and Gene Steffens, Des Moines, Iowa.

Top Dressing Extends Life Of Seedings

You can prolong the life and yields of legume pasture by top dressing the pasture regularly with phosphate and potash fertilizer.

Legumes are big consumers of phosphate and potash, reports the Middle West Soil Improvement Committee. Three tons of alfalfa use the equivalent of 35 pounds of phosphate and 135 pounds of potash.

If soil gets low in these two plant foods, the grass in pastures begins to take over. Then production drops, and you are faced with a re-seeding problem.

Top-dressing legume pastures increases yield of forage, makes pasture seedings last longer, and thereby saves re-seeding expense, says the committee.

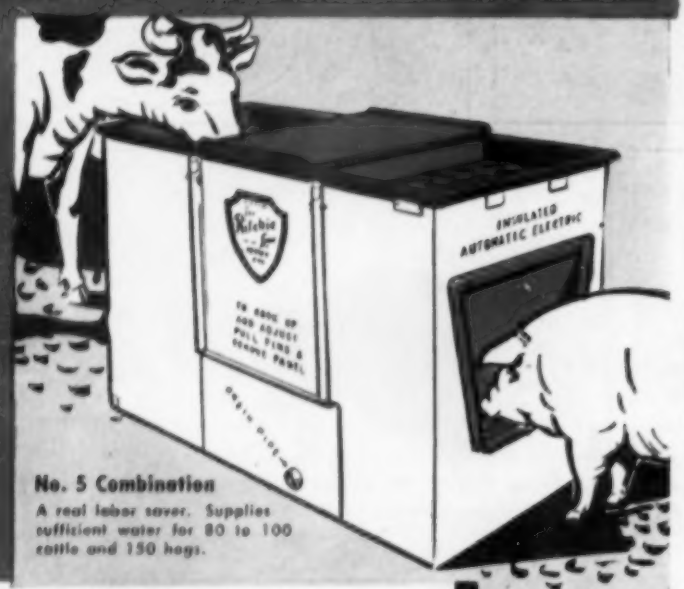
THERE are at least 100,000 different kinds of fungus growths. And many other kinds are being found each year.

AVERAGE FARMER spends about 40 percent of his time working with livestock. That compares with 30 percent before the first World War.

Barnyard Yaks by Kapgab (that's Bagpak spelled backwards)

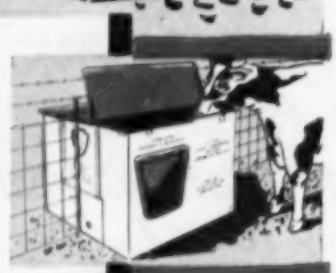
THE Ritchie LINE
AUTOMATIC HEATED
WATERERS

The RITCHIE Automatic Heated Waterers work for you twenty-four hours a day unattended. They come in many sizes and combinations and are ideal for the dairy farmer, beef feeder, hog raiser, and poultryman. These fully insulated automatic waterers are the result of years of development and successful farm use.



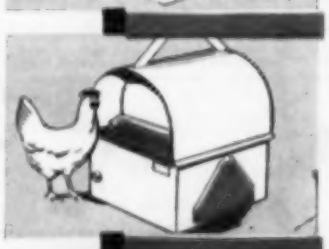
No. 5 Combination
A real labor saver. Supplies sufficient water for 80 to 100 cattle and 150 hogs.

LARGE COMBINATION
This Large Combination RITCHIE Waterer has ample capacity for 100 to 200 cattle and 150 hogs. It is of all steel construction with a 10-year guarantee against trough breakage. Hinged covers protect entire cattle drinking area when all or part of trough is not needed. Self-service doors on hog trough prevent cold air from reaching heated water. Choice of automatic electric, automatic gas or oil heat. Electric models completely insulated with aluminum foil faced fiberglass. Designed for fenceline installation to serve two or more lots.



HOG WATERERS
The New RITCHIE line of Automatic Heated Hog Waterers is the last word in modern watering practices. Durable all steel construction throughout with a 10-year guarantee on steel trough against breakage. 12-gauge reinforced steel covers which conserve heating costs by 40 to 60 percent and make for cleaner, fresher water during summer months. Designed for fenceline installation to serve two lots. Fully insulated with aluminum foil faced fiberglass. Engineered and tested to give years of trouble-free service. Comes in two sizes — Model 2AA and the larger 4AA which has twice the capacity of the smaller model.

POULTRY WATERERS
A steady supply of clean, fresh water is a MUST for good egg production. The RITCHIE Pipeline Poultry Waterer meets all the requirements of the modern poultryman. All steel construction guaranteed against breakage; easy to clean; two 14" brass pans which can be removed quickly for daily cleaning. Thermostat controlled electric heater (200 watt) automatically keeps water at correct temperature. Also comes with oil heat. Designed to keep outside dirt or droppings from contaminating water supply. Weight 45 lbs.



Write for prices and complete information.

SINCE 1921

RITCHIE MANUFACTURING CO.

The Ritchie Line

See you at the Fair . . .
UNDER THE CANOPY ON THE SIDEWALK
AT SOUTH SIDE OF VARIED INDUSTRIES BUILDING

Pump house on the Ted Kemper farm, Linn county, Iowa, was built according to Midwest Plan Service specifications. Note the hinged roof which can be removed for repair if necessary. Pump house plans designed by Midwest Plan Service are available thru the Agricultural Engineering Extension Service, Iowa State College. Cost is 15 cents.

Protect water system

Do you need a pump house? If so, here are points to consider

Here's the fourth and last of a series of articles to help you plan and install your farm water system. Information has been supplied by Kenneth L. McFate, agricultural engineer at Iowa State College.

YOUR water system pump, pressure tank, electric motor and controls represent a sizable investment. They deserve adequate protection.

Type of protection needed may depend to some extent on the location of your well.

For example, if you use a type of pump which doesn't have to be located directly over the well, you may be able to install the equipment in your basement. In that case, it's best to put the equipment on a pedestal 18 inches high.

If a pitless underground discharge is used, any type of pump can be located at the well site. The pressure tank and controls can be located in a basement or some other heated building.

The pitless unit is a device which allows termination of the well above the ground surface. It is usually about seven feet in length. Underground discharge opening and water carrying parts are located about six feet below the ground surface.

When installed, the pitless unit becomes a permanent part of the well casing. Discharge pipe is also permanently attached—which requires a sealing device where the water turns from its vertical lift into the horizontal pipe. A special spool-like mechanism directs the flow of water. The pump control box is located at the well.

If either of the above conditions doesn't apply on your farm, the pump should be placed on a raised concrete platform which also can serve as the floor of an insulated pump house.

Pump pits are discouraged by the State Department of Health for sanitary reasons. They should not be used for housing water system equipment.

Pits usually are poorly ventilated. They're nearly always damp. And they often allow bacteria laden surface waters to seep into the well.

In contrast, a dry, well-insulated pump house often can be built for as little as a poorly drained pit. And in a pump house, the pump, tank, motor and automatic controls are not subject to the severe moisture and corrosion conditions that exist in the pits.

The insulated pump house needs to be only large enough to house the equipment plus a little room to service or repair equipment when necessary. It should have at least four inches of fill type or blanket insulation in walls and ceiling. A vapor barrier should be placed on the inner side of the insulation.

The pump house may or may not have a door. Those designed by the Midwest Plan Service have a shed type roof which is hinged. It can be raised for minor service, or removed for major repair.

Without a door, heat loss is reduced to a minimum. That's because doors usually become loose with age. If, however, a house larger than five and one-half feet square is needed, a door should be provided.

What about heat for the pump house? A 250-watt infrared heat lamp, thermostatically controlled, usually will prevent freezing in an insulated pump house if well water is used. But if colder pond water is used, more heat may be required.

The pump house should be served with a separate electric service entrance—preferably underground, running direct from the meter side of the main disconnect switch. Then, in case of fire, you'll have water pressure even if other service wires are disconnected.

SAVE YOUR LIFE!

Innocent looking household appliances can be dangerous—especially to children or careless adults. Only names have been changed in the true story below reported by Norval J. Wardle, Iowa State College safety specialist.

"MY, THE house feels cool," Pete Masters remarked to his 10-year-old son, Henry, as they stepped into the kitchen. Pete went on into the front room which also served as his office.

As he stepped thru the door, a stream of cool air hit him.

"Ah, that feels good," Pete told his wife who was sewing. "I'm glad we got that new fan."

"Now, I've got to get those registration papers ready for Johnson when he comes for that spring gilt tomorrow. Turn the fan down a little, Henry. It'll still be cooling and not bother the papers."

"Henry! Forget that funny book a minute, and turn the fan down as I told you."

Henry jumped to do as his dad told him, but he was still reading the funny book. He reached to turn off the fan—

"Oh! Dad! Mother!"

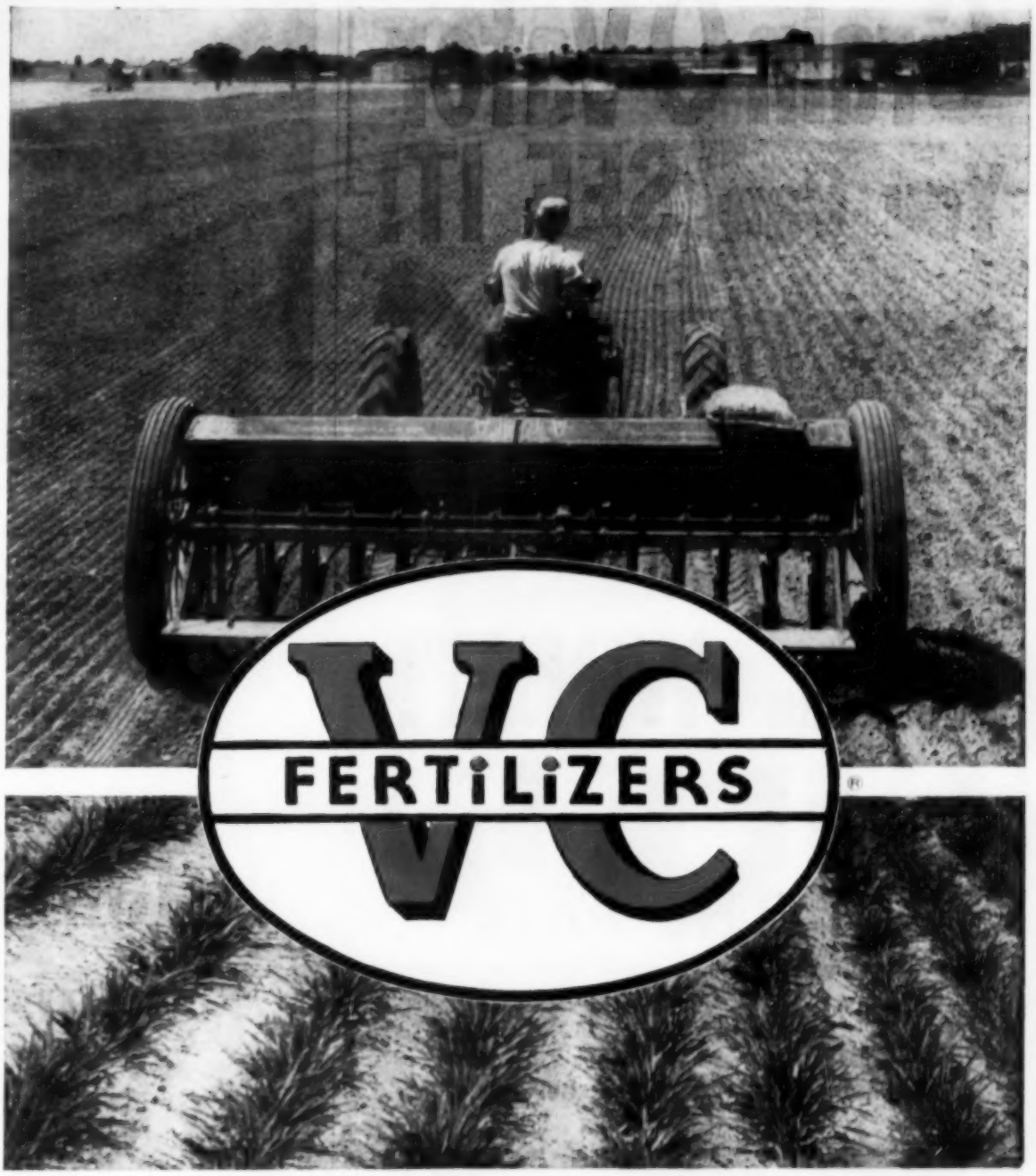
Both parents jumped to help the lad who held one hand with the other as one of the fingers was spurting blood from its stubby end. As he had hurriedly reached to move the switch, which was just below the fan shield opening, he had by mistake reached too high and into the fan itself.

Henry's right index finger will always be a stub. He had to learn to write again, holding the pencil with his second and third fingers against his thumb.

Some good practices with new equipment are:

1. Check it for safety. Think of the possible accidents. If not properly safeguarded, do not buy it. No machine or piece of equipment is worth a son or a daughter.
2. Electrical equipment should always have the Underwriters Laboratory label of approval on it. A UL wrapper on the cord only approves the cord.
3. Study the manufacturer's instructions for use.
4. Follow these instructions for use. Don't risk your neck experimenting with it.
5. Discuss the use and safety features of the equipment with the members of the family.

". . . And just how am I expected to wash these overalls you've had on for three weeks."



How to make more money from every trip across your field . . .

Back and forth across your field, you travel nearly a mile to seed and fertilize an acre of grain. Yields depend on what your drill puts down. Many leading farmers have found that it pays to give grain 500 to 600 pounds of V-C Fertilizer per acre. A heavy fall application of V-C Fertilizer gives the crop a vigorous start of lush fall growth, helps it to resist winter killing and makes it stool out strong next spring with many sturdy stalks loaded with high-quality grain for harvest. It also helps you get a good "catch" of legumes. When you double or triple your yield of grain with V-C Fertilizer, you reduce your cost per bushel and greatly increase your profit per mile of labor and machinery.

See Your V-C® Dealer

Get the facts on the complete line of V-C Fertilizers. Ask about the extra crop-producing power and easy-drilling quality of V-C PROLIFIC, the fertilizer preferred by so many leading farmers. V-C PROLIFIC is a superior blend of better plant foods fortified with important minor elements lacking in many soils. V-C Fertilizers and V-C Superphosphates are made to fit the needs of your farm. Your V-C Dealer is a good man to know. He can help you make more money from farming. *See him today!*

Grain-O-Vator

You Can SEE IT!

You Can WIN IT!

FREE!

AT THE FAIR

Stop in at the Dodgen Booth for details at one of these fairs

IOWA STATE FAIR, WATERLOO CATTLE CONGRESS, CLAY COUNTY FAIR, ILLINOIS STATE FAIR, NEBRASKA STATE FAIR.

THREE MODELS FOR EVERY REQUIREMENT

"10" "20" "30"

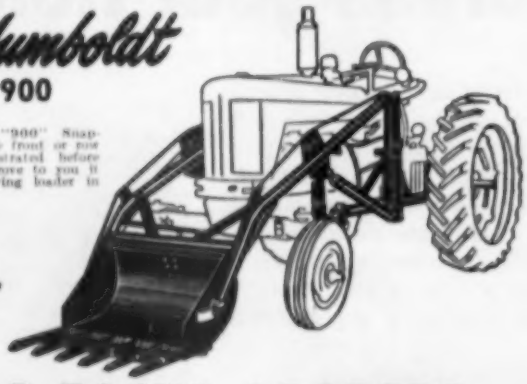
ALSO SEE

THE *Humboldt*

"SERIES" 900

See the Humboldt "900" Snap-Tach Loader, for wide front or row crop tractors demonstrated before your eyes. It will prove to you it is the most time saving loader in the country.

Snap-on Snap-off in "SECONDS"



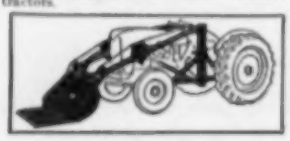
"SNAP-TACH" LOADERS

• "SERIES" 800

"Snap-Tach 800" designed for row crop tractors.

• "SERIES" 700

"Snap-Tach 700" is an exclusive design especially for the small standard tractors.



DODGEN AND COMPANY

FORT DODGE, IOWA

Home-grown broom corn was used by Albert Tabbert of Mitchell county, Iowa, to make more than 100 brooms last winter.

When you retire . . .

Hobbies can be useful

LOTS of retired Corn Belt farmers find plenty to do—other than "sitting in a rocking chair." Take, for example, the two who are pictured on this page.

Albert Tabbert has turned the operation of his Mitchell county, Iowa, farm over to his son. During the farming season, he does odd jobs for neighbors—carpentering or sharpening plows and disks and repairing machinery in his farm shop.

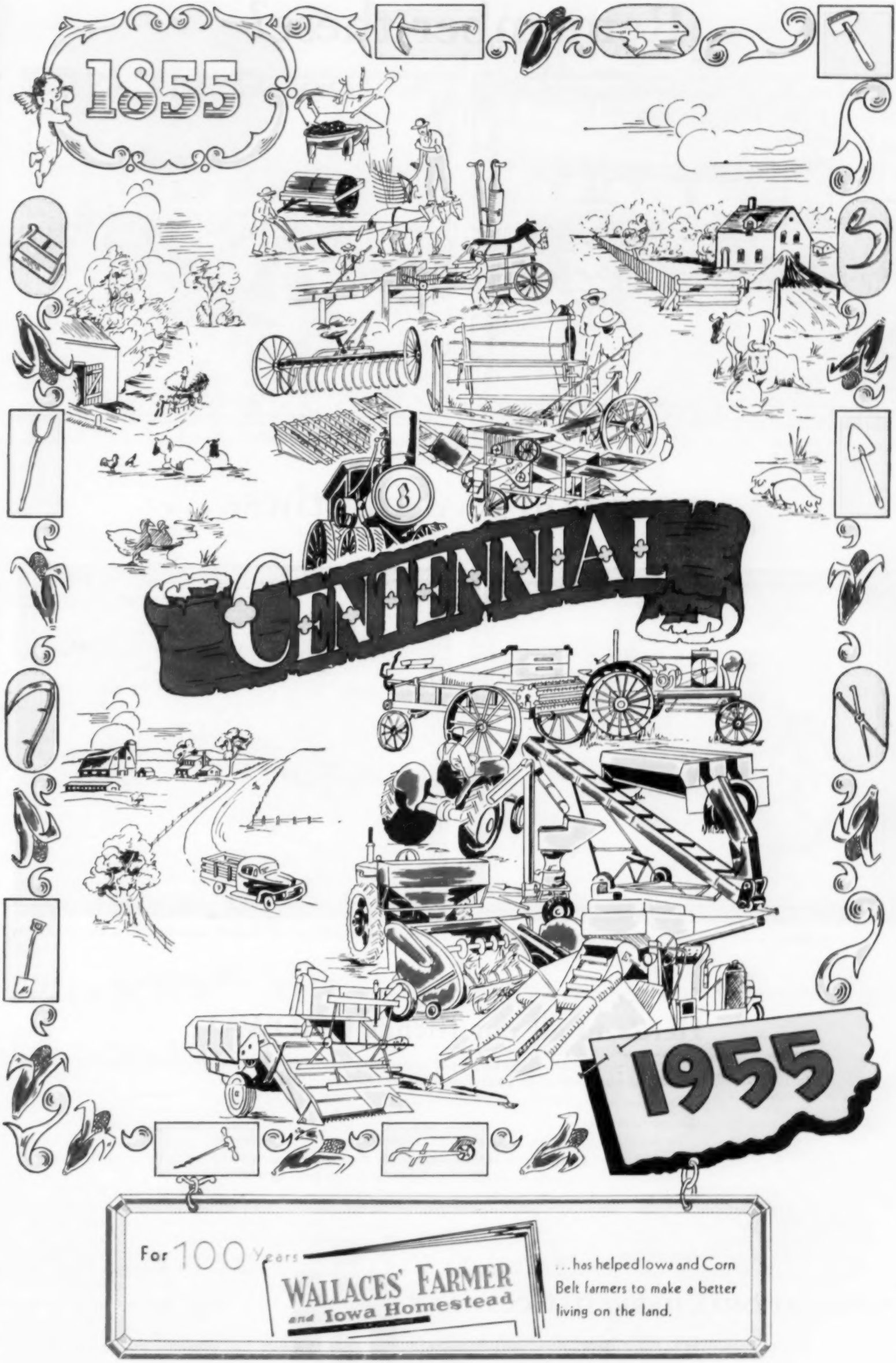
And in the winter, Tabbert turns to broom making. He grows the broom corn on his own farm. And he finds a ready market for his brooms in the surrounding area.

Or take the case of A. J. Brown of Kossuth county, Iowa. He's 83—retired, but still living on the farm his grandfather homesteaded 100 years ago.

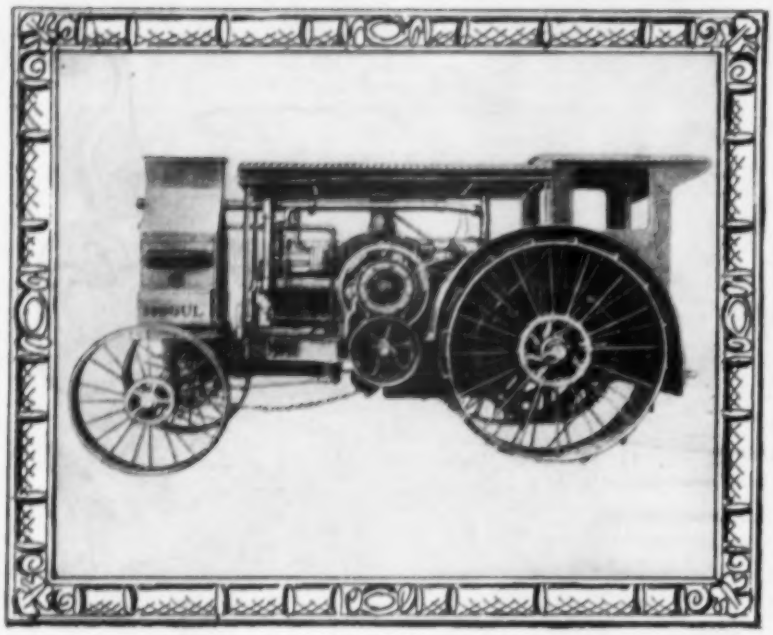
Brown spends several hours daily in his basement woodworking shop. Finished products include cabinets, cupboards, rocking-chair, pin cushions and other "gadgets."

A walnut grove on Brown's farm provides much of the lumber which he uses in his shop.

Sewing cabinet is one of the many pieces of furniture made by A. J. Brown of Kossuth county, Iowa. He likes to make things for his 27 grandchildren and 22 great grandchildren.


1855
CENTENNIAL
1955
For 100 Years
WALLACES' FARMER
and Iowa Homestead
...has helped Iowa and Corn Belt farmers to make a better living on the land.

Remember these?



International Harvester MOGUL—1910 model! 45 H. P., weight 11 tons.

Early McCormick twine binder, first made in quantity in the 1880's.

...now you're using these...

Mighty master in the field of 4-plow, all-purpose power. New Farmall 400.

International Harvester 141 self-propelled combine cuts costs, time and labor.

Here's to all our friends in IOWA!

What a story your own farms could tell of the 100 years of progress celebrated this year by Wallace's Farmer and Iowa Homestead! It is the story of the amazing growth of power farming and the miracle of food production we have today.

To the older generation these pictures will bring back many memories. To you younger Iowa farm folk they will show how closely International Harvester products and service have been identified with Iowa agriculture. We've been working together for considerably *more* than a hundred years!

INTERNATIONAL HARVESTER COMPANY *180 N. Michigan Avenue, Chicago 1, Illinois*

100 Years of Farm Paper History

THE IOWA HOMESTEAD

AND WEEKLY NORTHWESTERN FARMER.

VOL. VII, NO. 20. DESMOINES, THURSDAY, AUG. 21, 1862. NEW SERIES, VOL. I, NO. 20.

THE IOWA HOMESTEAD.

Agricultural Department.

This was the way the Iowa Homestead looked in 1862. The farm paper was published at "Desmoines" from 1861 on. The usual issue was eight pages.

WHAT DID farmers worry about in 1855? And what did farm paper editors write about?

Much the same things that concern farmers and editors now. Diseases of livestock, weather and prices—especially prices.

Prices were good—for those days—when Mark Miller started his farm paper in 1855 at Racine, Wisconsin, and then moved it to Dubuque, Iowa, in 1856. Wheat prices at Iowa points were $1.06 in July of 1855.

But the panic of 1857 shook prices. Even with the Civil War under way, wheat was only 49 cents at harvest time in 1861.

Editor Miller thought he knew why. In the issue of the Iowa Homestead for February 20, 1862, he wrote:

"One year ago flour was shipped by railroad from Chicago to New York for $1.12½ per barrel. Now it is about $2.50, more than twice the charge of last season.

"The question naturally arises: Why is it? The reason is plain. Last season the West and Northwest had a southern market and outlet to the ocean by way of the Mississippi river.

"Now our southern market is cut off and the eastern companies are taking advantage of the misfortunes of the farmers of the west by charging an exorbitant freight upon the produce which they have been sending east."

Better times—or at least better prices—were coming. Greenback inflation pushed wheat prices in Iowa up to $1.56 in 1864. Hogs went up too. Buyers were paying $9.00 per hundred for hogs in December of 1864.

But after war-time inflation, came the slump. Hogs were back to $3.40 in 1871. Wheat was $1.00 in 1871 and 72 cents in 1874.

Many farmers had bought farms, livestock and machinery at high war-time prices. Now they were in trouble.

General W. P. Wilson was editor of the Homestead then. He felt that the brand-new Granger movement would help farmers to get lower freight rates. In 1872, with the Homestead's help, there were 652 new local Granges organized in Iowa.

Times were a little better, but still hard when "Uncle Henry" Wallace became editor in 1883. James M. Pierce came in as publisher and majority stockholder in 1885.

For 10 years, the Pierce-Wallace team turned out a farm paper that ranked high in practical farm suggestions and in fighting leadership of farm causes. Circulation and prestige grew.

Then in 1895, Wallace left to start Wallaces' Farmer with his two sons, Henry C. and John P. James M. Pierce continued with the Iowa Homestead.

In the years that followed, both papers contributed largely to farm progress. The Farm Institute supplements of the Homestead, the corn and dairy trains of Wallaces' Farmer were examples of this work.

After World War I, the country roads were filled with salesmen out to trade blue-sky stock for Liberty Bonds. The Iowa Homestead exposed these deals and saved farmers millions of dollars.

"Uncle Henry" Wallace died during the war in 1916. His old associate, J. M. Pierce died in November, 1920, just at the time of the post-war slump.

J. M.'s son, Dante M. Pierce, took over, pulled the Iowa Homestead thru post-war difficulties and brought it up to peak circulation by 1929.

In the meantime, Henry C. Wallace, had gone to Washington as Secretary of Agriculture, and Wallaces' Farmer was leading the campaign for the McNary-Haugen bill. This movement pulled northern and southern farmers together for the first time.

In 1929, the Wallaces bought the Iowa Homestead and the combined Wallaces' Farmer and Iowa Homestead began a new career. Dropping farm prices wiped out the Wallaces, and Dante M. Pierce came back as receiver. Henry A. Wallace, grandson of "Uncle Henry," continued as editor until he left for Washington as Secretary of Agriculture in 1933.

Under Dante M. Pierce, the combined farm paper plunged into active support of the new corn loan program. Pierce loaned chairs and desks to the new state AAA committee so they could start working before governmental red tape got supplies to them.

The history of Wallaces' Farmer and Iowa Homestead in recent years, under Dante M. Pierce, publisher, and Richard S. Pierce, associate publisher, is familiar to every reader.

Look at this issue and then think of the August 21 issue of Iowa Homestead in 1862. Eight pages then; over 100 pages now.

"Best quality . . . $7 an acre"

What farming was like in the 1860's and the 1870's . . . as told by pioneers themselves in the Iowa Homestead.

Notice of railroad land sale in northwestern Iowa, 1872. (Warsaw Collection of Business America.)

Wanted! 10,000 FarmerS

TO IMPROVE

1,700,000 Acres Railroad Lands in Iowa,

Comprising the Government Railroad Grants to the Iowa Divisions of the Chicago and North-western, Illinois Central, and Sioux City and Pacific Railways, and for sale by the

IOWA RAILROAD LAND COMPANY.

These Lands are mainly located in the MIDDLE REGIONS OF WESTERN IOWA, have never been mortgaged, and the purchaser's title, on full payment, is a Warrantee Deed, with but ONE remove from the United States Government.

Land buyers are invited to EXAMINE THIS TERRITORY before going west of the Missouri River. It is only forty-eight hours distant from the Atlantic seaboard, and is traversed by railroads in all directions.

THE attention of the large farmer is particularly invited to the lands in the counties of Carroll, Crawford, Monona, Ida, Sac, and Woodbury, in which the Government grants embrace both even and odd numbered sections, enabling this Company to offer **Large and Compact Bodies of Land**, an advantage that can be presented by no other Land-grant Company.

AGRICULTURAL ADVANTAGES.—With no undulation or hill ranges, the surface of this district of country is a rolling, billowy prairie, watered by many considerable streams—the valleys affording the best of corn and meadow lands, sloping gradually to intervening divides, on which the finest of wheat is grown. Woodlands border the larger water-courses, while clear, gravelly brooks traverse almost every half section.

The soil is a vegetable mold, very deep in the prairie bottoms, and covering the uplands to the depth of eighteen inches or more. The subsoil, with an under-stratum of gravel, is a pulverized, yellow clay, mixed with siliceous loam, and of inexhaustible fertility. The perfect drainage affords good roads at all seasons of the year.

The climate—with early Springs; Summers, with showers and dews; delightful Autumns, lingering into a clear and equable Winter of short duration—is the healthiest in the world. Malarious diseases and pulmonary complaints are seldom, if ever, known.

Sales of these lands have been made within the last two months of over thirty-seven thousand acres, in tracts varying from forty to one thousand two hundred and eighty acres—the average being less than one hundred acres to each purchaser. The settlers are largely from Illinois, East Iowa, and the more thickly settled portions of the Western States.

The advantages of this district of country for farming purposes is best demonstrated by the fact that every one examining this land with a **view to settlement buys**, and all that have bought are contented.

PRICES AND TERMS OF PAYMENT.—The lands of this Company, of the best quality and near stations, are rated at from $7 to $10 per acre—with some few tracts at higher figures. For more distant lands the price is $5 and $6, and the still more remote, $3 and $4 per acre.

The terms of payment are invariably as follows:

On Short Time.—One-fourth down and balance payable in one, two, and three years, with six per cent interest, in advance.

On Long Time.—One-fifth cash down. In one year, the interest at six per cent, and the balance in two, three, four, and five years. The price on this plan will be ten per cent in advance of the short-time price. For all cash at date of purchase, ten per cent will be deducted from the short-time price.

Agencies are established at all the principal stations, where plats and prices of every tract may be seen, and good teams provided to show the lands free to purchasers.

HOW TO REACH THE LANDS.—At the Wells-street Depot and No. 65 South Canal Street, in Chicago, and the Railroad Offices in Clinton and Dubuque, or by calling at the Land Commissioner's Office in Cedar Rapids, or by addressing him and inclosing the amount of the regular railroad fare. **Land Exploring Tickets** can be had, or will be sent as directed, which will be received for land purchased, and are good to stop over at any station within the land district.

Guides giving descriptions, locations, prices, terms, with maps of unsold lands in any desired county, and all needful information, may be had at 65 South Canal Street, in Chicago, or will be sent free by addressing

JOHN B. CALHOUN,
Land Commissioner Iowa Railroad Land Company,
CEDAR RAPIDS, IOWA.

☞ Send now while the thought is in mind.

DON'T believe everything that land salesmen say . . . even tho seven dollars an acre looks like a bargain price.

That was one thing folks who came into Iowa and neighboring states learned early. One booster, Ansalem Stanley, burst into verse as early as 1840 to plug land sales. Ansalem sang:

"Here plows run without rocks to wear them away
In a mellow black loam without any clay
Tho the blacksmith may think it not very good news
Our horses can travel without any shoes,
The milk from our cows by the peck doth appear,
And eight hundred's the weight of a four-year-old steer."

What did it cost to raise a bushel of corn then? H. S. Hetherington of Dubuque told the Iowa Homestead, in March, 1862, that it added up to about 13 cents a bushel—if you could get a yield of 80 bushels to the acre.

Hetherington gave this itemized report:

Planting three acres at $2 per acre	**$ 6.00**
Harrowing	**1.00**
Marking out	**2.00**
Planting, man and boy, two days each	**2.50**
Seed	**.50**
Plowing four days, man and horse, $1.25 per day	**5.00**
Husking and cribbing at 3½ cents per bushel	**8.40**
Interest on value of land, $20 per acre	**6.00**
Total cost (three acres)	**$31.40**

Canada thistle was already causing trouble. The editor exploded about it, in the issue of April 3, 1862:

"We fear that the frequent warnings (of farm paper editors) will be unheeded and that we are destined to see our state overrun with that detestable offspring of negligence, that scourge which has ravaged the best agricultural portions of the eastern states, baffling every effort to arrest its career."

Dogs were making trouble. No fences and a developing sheep industry. The legislature acted and the editor warned:

"It should be understood by everyone that any dog now found running at large, not duly collared and registered, is liable to be shot or otherwise destroyed, and the owner has no legitimate remedy."

The Chickasaw County Courier of New Hampton reported a loss of 37 sheep in the county and said:

"The first thought is that these 37 sheep were worth more than all the specimens of the dog tribe that ever snarled at a peaceful traveler or murdered sheep in Chickasaw county . . . The new dog law will uphold anyone in sending a bullet thru the hearts of the curs which infest the roads in every direction."

A Minnesota correspondent sounded a familiar note on surpluses and lowered prices. The corn crop was extra good in Minnesota in 1862, but the price went down to 25 cents.

Built in 1853 or '54, this large brick farm home in Lee county, Iowa, now is occupied by the builder's great-grandson, Bill Adams. At right, Mr. and Mrs. Adams display original linen closet—known as a "clothes press." Brick for the house was made from clay off the farm. Walls are 16 to 18 inches thick. Picket fence still has some of original pickets which are as old as the house.

In 1848 this Henry county, Iowa, farm home was built by Levi Smith, who came to Henry county in 1833. The farm now is operated by a great-great-grandson, Bill Smith. At left, Mr. and Mrs. Smith place logs in the original fireplace. Limestone for foundation was quarried nearby. Bricks were made from clay off the farm.

Farm homes of 100 years ago

CHANCES are that your grandfathers—if they were on Iowa farms 100 years ago—lived in log cabins. But maybe not.

Eastern Iowa was no longer the frontier. And some farmers in that area, by 1855, had acquired enough wealth to erect relatively luxurious homes—built to last thru the years. Pictures on this page are witness to that fact.

Building costs? Well, according to legend, the basement of one of these homes was dug by one man for "$4 and all the whiskey he could drink while on job."

Brick home on the John Toft farm in Des Moines county, Iowa, was built 104 years ago. It has not been remodeled.

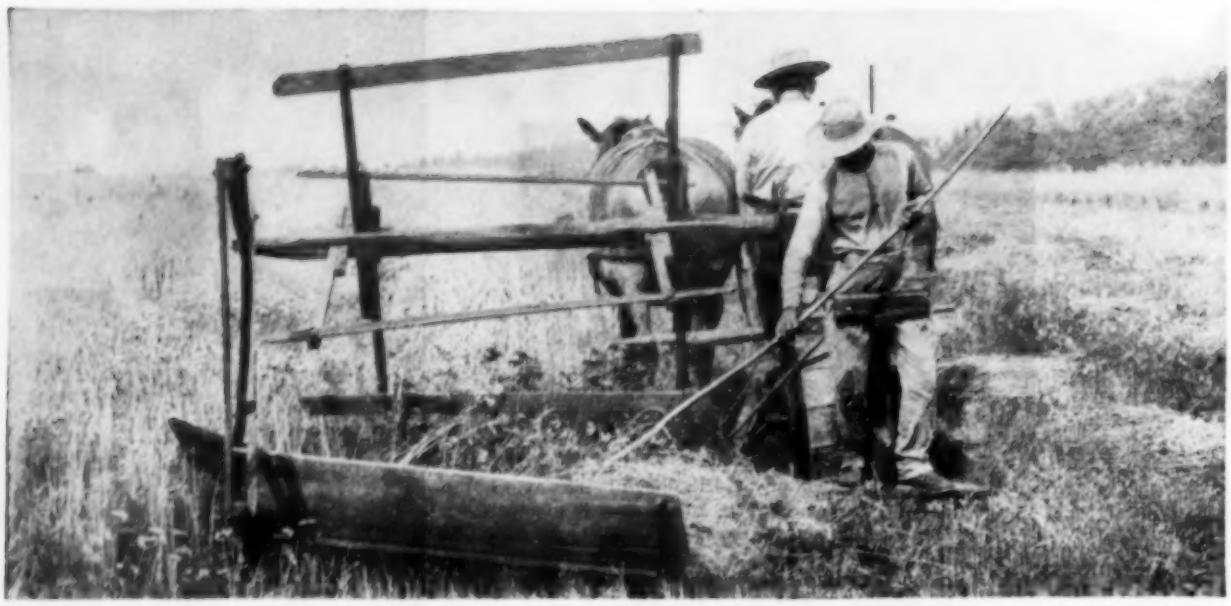
One of the oldest farm homes in Louisa county, Iowa, is this brick house. It's on the farm owned by Harry and Pearl Rossiter, formerly known as the Will Johansmeier place.

Photos by A. M. Wettach

Pioneer landmark in Des Moines county, Iowa, is this brick home, the Medefesser place. It was built in 1843, from native timber and bricks made on the farm.

100 years of

Farm machinery . . . the big labor-saver



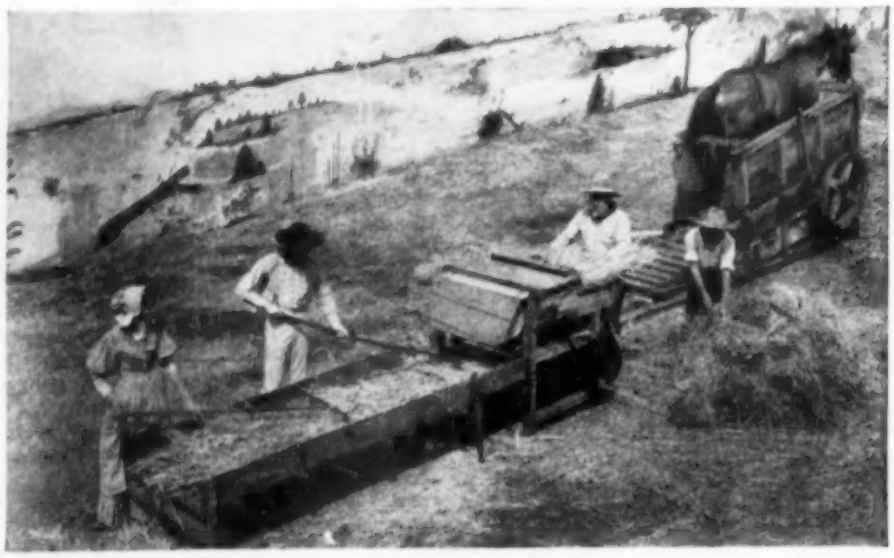
This reaper by International Harvester Company in 1857 featured improvements over earlier models. On earlier models, men had no seats. Cutting knife was made in sections instead of one piece. Main wheel was all metal. This was a big advance over the days when grain had to be cut by hand scythe or sickle. Bundles of grain were still bound by hand.

ONE hundred years ago when Iowa Homestead made its start, farm machines were beginning to ease the work load on farmers.

But those early machines foretold little of what the following 100 years would bring. Now grain is threshed right in the field and moved to storage without a scoop shovel.

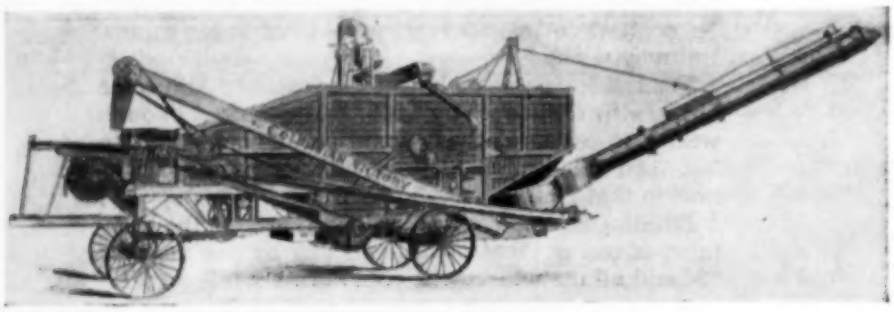
Corn is picked and shelled in the field. And the operator doesn't have to leave the tractor seat.

Big question now is this: What further advances will the next 100 years bring?



Old ground hog thresher by J. I. Case Company dates back to the 1840's. Power was furnished by horse on treadmill. Note hand feed to cylinder. Straw was raked away from cylinder by hand.

First plow to scour in heavy prairie soils had moldboard made from steel of broken saw mill blade. Drawing from John Deere Company.



Machines like the thresher above called for a big crew. This made threshing almost a seasonal social event. Thresher shown was built by the Minneapolis Moline Company about 1893.

Corn sheller shown here was introduced by King and Hamilton Company about 1875.

God's Gardener

YOU'LL find it at the city's edge . . . vast
and green and rich.

Those wooded hills are part of it . . . that stretch
of grass . . . that field of corn . . . that grain which
pays such graceful homage to the breeze.

That's all a part of it—
God's garden plot.

But, enter now. Behold the whole of it,
and marvel at the grandeur of His plan.

That wide plain there that touches each horizon—
that's where His wheat is sown. And, look . . . those
fertile fields of corn . . . He chose a perfect spot
for them. The rolling hills you see are lush with
grass for grazing flock or herd. And there . . .
there, where the sun is brightest,
is where His orchard blooms.

But let me talk of him whom God made steward of this plot.
He's of a special sort.

Strong, is he, of soul and sinew . . . and brown from wind and sun.
Gentle is his heart as his hands are rough.
Kindred, he is, to Nature. He makes the elements his tools,
and the soil his workshop. He reads the sky as though
it were a book and, from the wind, sifts prophecies.

His robe of office is a denim shirt, and yet
no earthly king surveys his realm more proudly.
Small glory attends his task, and yet no artist
approaches quite so nearly the miracle of creation.

Yes, let me talk of him who minds this plot.
He's of a special sort.

His title . . . humble as himself . . .
reads simply: Farmer.
But there's a grander one he merits . . . one more suited
to his trust. And we have recourse to it now—

God's Gardener.

Written upon the occasion of the 100th anniversary of Wallace's Farmer and Iowa Homestead and dedicated to the farmers it serves.

JOHN DEERE Moline, Illinois

QUALITY FARM EQUIPMENT SINCE 1837

60 Years . . . 1895-1955 of Friendly Banking Service

A "60 YEAR OLD" SALUTES A CENTENARIAN

The Iowa Homestead was already a thriving, mature institution of 40 years—when this bank was founded in May, 1895.

So — as a "60-year-old" we tip our hats to a centenarian.

No business endeavor — whether it be publishing or banking is going to endure through the decades unless it was founded to a good purpose — been endowed with sound, imaginative management — and been dedicated to serving with intelligence and unselfish devotion.

That the Iowa Homestead has rendered an invaluable service to the farmers of Iowa is reflected in the fact that it is celebrating its One Hundredth Birthday.

Ever since the founding of this Bank — 60 years ago — it has, likewise, been closely identified with Iowa's Great Agricultural Industry.

One evidence of this is the fact that the Friendly Central National was the FIRST—and to our knowledge still the only commercial bank in Iowa to offer a Complete Farm Management Service to non-resident owners.

Our Heartiest Congratulations to the Iowa Homestead as it embarks upon its Second Century of Devoted Service to Iowa Agriculture.

CENTRAL NATIONAL BANK
and Trust Company • 5th and Locust
Des Moines Iowa

MEMBER FEDERAL DEPOSIT INSURANCE CORPORATION

For cholera pile up the dead hogs; burn them to a crisp; "introduce living hogs to the burnt offering." A Story county, Iowa, farmer thought this was the way to fight hog cholera. He wrote the Iowa Homestead about it in 1862.

Cholera wiped out herds

Hog raisers lived in dread of cholera until double treatment came in 1908

YOUR GRANDFATHER may have told you stories about hog cholera. Every early-day farm had the same experience at some time or other.

The hogs were getting up to 200 pounds—close to market weight. The money they would bring was already marked for interest on the mortgage and for taxes. Then one morning, Grandpa went out to the hog lot to find a few sick hogs. Cholera! What could you do?

In those days, very little. Cholera made trouble on Corn Belt farms from the early days of settlement. Everybody had "cures," but the hogs still died.

In March, 1862, S. E. Hampton of Black Hawk county, Iowa, wrote the Iowa Homestead for help: "Hogs are dying very rapidly and if there is a remedy or preventive, we should be glad to know it."

The editor quoted an Iowa legislator as follows:

"I would advise that all dead hogs should be immediately burned, buried or taken out of the fields of the living. The country at one time was visited so severely that it appeared the entire atmosphere was impregnated with the stench.

"My remedies are to give the hogs that are not affected salt and ashes or saleratus . . . When the herd becomes affected, bleed them well by cutting their ears and tails, and then mix a small amount of copperas and soda in their slop."

Another kind of remedy, available only to those with plenty of dead hogs, was described December 4, 1862. W. J. Graham of Story county, Iowa, wrote:

"I went to the timber, cut a large dry tree, hauled it up and made the heap according to directions, using up some 15 of the dead hogs. I fired the heap and burned the carcasses to a crisp or char.

"I then introduced the living hogs to the burnt offering and I never saw hogs feed more greedily upon anything than did those hogs upon the ashes and remains . . . From that day to this, I have neither lost a hog nor seen any symptoms of illness."

About the turn of the century, the United States Department of Agriculture began its series of experiments with hog cholera virus and serum.

On March 6, 1908, Wallaces' Farmer was able to announce that Dr. M. Dorset and other USDA scientists had worked out the double treatment. Wallaces' Farmer reported, "The effectiveness of the method is shown by the following summary of experiments. On 168 hogs that were injected with the preventive serum and diseased blood simultaneously, only 15 or nine percent died, while of 55 that were inoculated with the diseased blood without the protective serum 50, or 92.5 percent died."

But this new treatment for hog cholera didn't meet acceptance at once. Some farmers were very doubtful about its merits. Harold Sorby, in a letter to Wallaces' Farmer June 19, 1908, said, "The method of the government scientists for dealing with hog cholera . . . is neither economical nor practical . . . It would cost about $5 million more to inoculate the hogs than would be represented by the value of the hogs that annually die of hog cholera."

From 1908 on, the use of the double treatment spread until losses from hog cholera were greatly reduced.

Bigger Yields Better Corn Greater Profits

FUNK'S G HYBRID

. . . have been won for Funk's G-Hybrid farmers, every season by 40 years of non-stop RESEARCH

. . . and research continues to make Funk's G-Hybrids CONSISTENTLY GOOD . . . Year After Year.

THIS IS YOUR CORN GUIDE FOR 1956

Select BALANCED 5-STAR FUNK'S G-HYBRIDS from this Complete Line and ORDER NOW

Choose the right G-Hybrids for your farm—to match your soil types, maturity and special needs. *Every Funk's G-Hybrid has bred-in factors for Balanced Performance in its adapted area.*

These G-Hybrids start fast and establish strong healthy plants even under cold wet conditions . . . keep going through hazards of weather, insects and diseases . . . produce strong stalks . . . and make the best yields of quality corn possible under conditions on your farm. In short—this is money-making corn.

This dependable performance is the result of bred-in 5-Star qualities (listed at right) working together as a team for Balanced 5-Star Performance—the best "Corn Quality and Yield Insurance" you can get.

- ★ Rapid Growth
- ★ Disease Resistance
- ★ Insect Resistance
- ★ Drouth Resistance
- ★ Standability

AGAIN IN 1955 . . . MORE FARMERS PLANTED FUNK'S G-HYBRIDS THAN EVER BEFORE

5-STAR FUNK'S

TOPS IN NORTHERN & NORTH-CENTRAL IOWA

FUNK'S G HYBRID

G-6 . . . The most talked about and widely known G-Hybrid in northern Iowa. Why? G-6 grows fast, keeps coming when others fail; it stands, holds its ears and really yields. One of many Funk's G-Hybrids with higher than average oil content. Fast dryer, good keeper, always shells out heavy. G-6 is *consistently* good, year after year. If you farm in its adapted area, plant this champion performer in 1956!

G-20 . . . A new Funk's G-Hybrid—one of the best to come along in years! Very uniform. Solid girthy ears. Excellent ear height. Excellent shank and stalk quality. Consistently produces heavy yields of sound grain. We expect G-20 to be one of our biggest sellers. For a new and different hybrid that is sure to please you, try G-20. Adapted throughout northern Iowa, where an earlier high yielding variety is desired.

G-26 . . . This heavy yielding G-Hybrid has become very popular throughout northern Iowa as a medium maturity corn. G-26 matures slightly later than G-6. Taller stalk, higher ear placement, excellent standability. Tough shanks hold ears well. Deep, reddish cast kernels. Dries almost as fast as G-6. Produces ripe ears on green stalks. Ask your neighbors about G-26!

G-23 . . . A new, ALL new product of Funk Research that is going to win plenty of friends in 1956! G-23 produces remarkably uniform, heavy, girthy ears that ripen on green stalks. As for yields, the scales tell the story—Outstanding! Excellent under thick planting. Tops in north-central Iowa and in spots for northern Iowa. G-23 is a 5-Star performer under a wide range of conditions. Better order early! Supplies are limited.

G-30 . . . A great all-around hybrid. G-30 is 5-7 days later in maturity than G-6. It grows fast, makes big, deep kerneled ears that really shell out. A heavy yielder of sound dry corn, almost regardless of the season. Under certain conditions G-30 stalks will break some. This dependable hybrid wins a lot of new friends each year.

Great G-Hybrids for South-Central & Southern Iowa

G-76 . . . Brand new and outstanding. A companion hybrid for G-75A and a close relative; a few days later. Stiff stalks. Excellent yielding ability. Medium height stalk, good ear placement. Wonderful grain quality. G-76 is the very high quality hybrid pictured on the back page.

G-60A . . . If you like big ears, deep kernels and lots of eye appeal, try this one. Adapted from Highway 30 to the Missouri Line. Stiff stalks, fast early growth, outstanding leaf blight and drouth resistance have made this a favorite of southern Iowa farmers. Deep, reddish-cast kernels. Very pleasing yields.

G-95A . . . Slightly earlier and lower-eared than G-95 and usually outyields it. A top performer under heat and drouth. You'll like the way this hybrid stands up and yields, and it's a very fast dryer in the fall, too. Slightly rough ears have good circumference and are attractive in color. It already has made a lot of friends in southern Iowa. For a deep-kerneled full-season corn that is sure to please you, order G-95A.

G-91 . . . A very dependable full season hybrid for south-central and southern Iowa. It takes off fast in the spring and keeps going 'til frost. When the going is tough many hybrids fall by the wayside, but G-91 can take it. Resists drouth, insects and leaf blight, and finishes at the top of the list. Fine picker corn. If you plant fairly early you'll want the benefits of this great yielder.

G-97 . . . This long-eared new G-Hybrid won a lot of friends last season throughout the southern half of Iowa. Has already replaced our famous G-99. Very drouth and leaf blight resistant. Fine quality stalks stand and hold their ears. Dries fast and makes remarkable yields of sound grain. Try this full-season champion in 1956.

G-HYBRIDS for IOWA

FAVORITES from North-Central to South-Central Iowa

G-30A . . . A few days later than G-30. This fine newcomer grows some taller, puts the ear higher and usually yields more than G-30. Excellent stalk, shank and grain quality, plus wonderful yields, make G-30A stand out wherever it is grown. Picks nice and clean. A top-notch medium maturity corn for north-central and central Iowa. Good maturity for most of northern Iowa.

G-22 . . . Here's a new one you'll want to try, especially if you plant thicker than normal. About the same maturity as G-30, G-22 starts fast and keeps on coming all season. It is outstanding for stalk quality and shanks that really hold to those all yellow ears. Performs well and makes big yields under thick planting. Ears are heavy and girthy from butt to tip. Short shanks may fool you in the field . . . you'll crib more corn than you'd think possible, earlier in the season.

G-33A . . . We introduced this Balanced Performing G-Hybrid last year after three years of tests proved it to be a winner. Adapted for north-central and central Iowa. Makes rapid early growth . . . full uniform stands . . . sturdy high quality stalks . . . strong shanks that hold on to the ears. Has equalled or exceeded G-16A in yields consistently. Get your order in early on this one.

G-16A . . . Iowa's favorite medium maturity G-Hybrid. Farmers like its fast early growth, long girthy ears, fine stalk quality and excellent shanks. Really holds its ears; no picking up in G-16A fields. Year after year, this all-around champion performer comes through with top-notch yields of quality corn. Adapted from north-central Iowa clear to the Missouri Line. We always sell out early on this 5-Star hybrid. See your G-Hybrid dealer and order G-16A now.

G-75A . . . Here is a new hybrid with *plus* values you will want. G-75A is a very fast starter and grower, with plenty of insect and disease resistance. Its cylindrical ears are very uniform and well-filled; pick nice and clean. Short shanks, long husks and exceptional stalks. Where fertility and moisture permit, G-75A is excellent under thicker than normal planting. If you want a truly new and different medium maturing corn for north-central Iowa down to the Missouri Line, ask your dealer about G-75A.

Ask your Funk's G-Hybrid dealer about other new G-Hybrids available now in most maturities. Limited quantities.

You have to *PLANT* Quality to harvest quality!

What you put in your planter box largely determines what you take out of the wagon box. There is no substitute for quality in seed corn.

For top yields of excellent quality corn in 1956, plant 5-Star Funk's G-Hybrids—the nearest you can get to corn with *Bred-In* "Quality Insurance."

FUNK BROS. SEED CO.

BELLE PLAINE, IOWA

ORDER G-HYBRID SEED NOW *from dealers representing*

1 GOLDEN SEED CO., Cordova, Illinois
2 ROB-SEE-CO., Waterloo, Nebraska
3 FUNK BROS. SEED CO., Belle Plaine, Iowa

ORDER EARLY!

FUNK'S G HYBRID Research Acres

Where our STARS were born

Year after year after year—for forty years without stopping—Funk's corn breeders have been at work in Research Acres fields . . . making the stars brighter, in 5-Star corn.

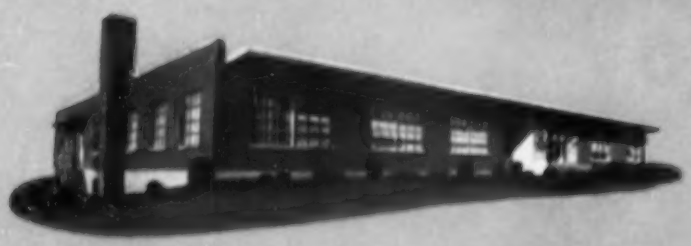
In years gone by, native or open pollinated corn produced only very occasional plants that might be called "5-Star." These unusual plants combined big, solid ears with stiff, standing stalks, supported by vigorous root systems.

But in 1915, Eugene D. Funk, Sr., and his young assistant, Jim Holbert, saw a remarkable vision of cornfields to come. Their vision became this goal: The one-in-a-million plant would be multiplied a billion-fold, and would grow in every farmer's field. These plants would stand erect at harvest time, holding beautiful ears of quality grain for easy, clean husking. And most important, the new corn would be dependable and uniform—created by new breeding methods.

So in the fall of 1915 on Funk Farms, near Bloomington, Ill., Jim Holbert started plodding up and down corn rows, day after day, looking, always looking for corn plants that would come close to 5-Star perfection. Perfection of ear, of stalk, of root! For those plants were to furnish seed for many inbred parents of today's BALANCED 5-Star Funk's G-Hybrids.

That year—1915—after a quarter of a century of open pollinated selection directed by Mr. Funk, marked the beginning of modern Funk's G-Hybrid Research. Sixty-five years of corn improvement . . . forty years of continuous hybrid research! Today the work of improving G-Hybrids continues on a greater scale than ever before, in Research Acres throughout the United States, Canada and Europe. As a result, 5-STAR FUNK'S G-HYBRIDS ARE GROWN OVER A WIDER AREA THAN ANY OTHER HYBRID!

40 YEARS OF CONTINUOUS RESEARCH



This modern Funk's G-Hybrid Research Center at Bloomington, Ill., was dedicated in 1955—the 40th Anniversary of our hybrid breeding program.

Contrasts like this are seen in many important corn growing areas every year. A Balanced 5-Star G-Hybrid produced fine quality ears (above), while a hybrid in the next row produced the ears at right. Breeding does make a difference.

QUALITY STANDS OUT

Heat, drouth . . . borers, root worms, ear worms . . . ear rot, smuts, leaf blight—all of them attack corn somewhere, every season. On your farm, it might be *this* year. The best "Corn Quality Insurance" you can get is to plant Funk's G-Hybrids with BALANCED 5-Star Performance—improved by 40 years of continuous research.

FOR BALANCED PERFORMANCE THESE STARS PUT YIELD IN YOUR FIELD

★ RAPID GROWTH . . .
Modern Funk's G-Hybrids come up to vigorous uniform stands and keep growing rapidly! Get ahead of weeds. Establish a sturdy plant, ready to beat drouth, insects and disease.

★ DISEASE RESISTANCE . . .
Bred-in resistance to smut, blights, wilts and rots helps G-Hybrids beat those stalk, leaf and ear diseases and produce sound well-filled ears and sturdy stalks.

★ INSECT RESISTANCE . . .
Under heavy infestation, modern Funk's G-Hybrids resist insect attack and put more corn in the wagon than non-resistant hybrids.

★ DROUTH RESISTANCE . . .
Bred-in qualities enable thrifty G-Hybrids to use available moisture most efficiently under long spells of hot, dry weather—and continue making a crop when rain comes.

★ STANDABILITY . . .
Funk's G-Hybrids produce strong, stiff stalks with excellent roots. They stand until you're ready to harvest; make harvesting easier and reduce harvest losses.

Every Funk's G-Hybrid combines the 5-Star Qualities (listed at left) bred in for maximum resistance to corn crop hazards. That's why under favorable conditions or years of tough going, Funk's G-Hybrids continue to make new friends. Farmers recognize the advantages of Balanced Performance—and increase their orders.

Balanced 5-Star Performance pays off makes

FUNK'S G-HYBRIDS

Consistently Good!

YEAR AFTER YEAR

FUNK'S G HYBRID

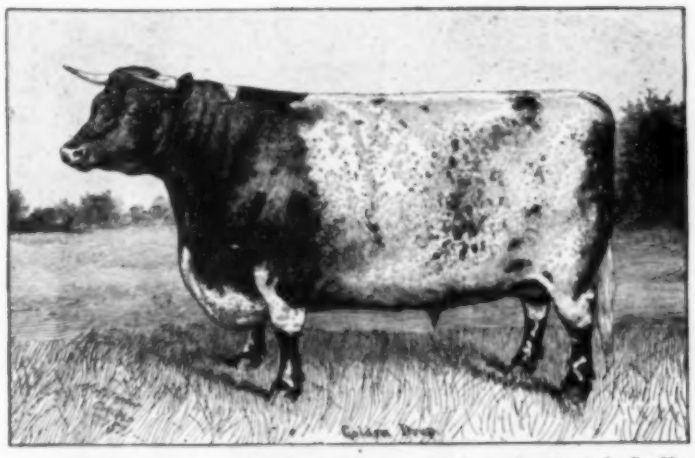
Depend on Your Funk's G Dealer

We know that farmers' needs vary, and that one hybrid will neither satisfy everyone nor do the best job under all conditions. That's why we have developed a complete line of G-Hybrids to meet every farming need. Every G-Hybrid is different—and all are tested and proved in our Research Acres Plot on farms in your community. Depend on your Funk's G-Dealer for help in choosing the best G-Hybrids for your farm.

THESE ORGANIZATIONS PRODUCE AND DISTRIBUTE FUNK'S G-HYBRIDS

AGRICULTURAL LABORATORIES, INC. — Columbus, Ohio
CLARENCE AKIN & SON — St. Francisville, Illinois
COLUMBIANA SEED CO. — Eldred, Illinois
FUNK BROS. SEED CO. — Bloomington, Illinois
FUNK BROS. SEED CO. — Belle Plaine, Iowa
FRANK S. GARWOOD & SONS — Stonington, Illinois
GOLDEN SEED CO. — Cordova, Illinois
JAMES GRANT & SON SEED CO., LTD. — Cottam, Ont., Canada
A. H. HOFFMAN, INC. — Landisville, Pennsylvania
WISCONSIN SEED CO. — Spring Green, Wisconsin
LOUISIANA SEED CO. — Alexandria, Louisiana
McKEIGHAN SEED CO. — Yates City, Illinois
PETERSON BIDDICK CO. — Wadena, Minnesota
ROB-SEE-CO. — Waterloo, Nebraska
SHISSLER SEED CO. — Elmwood, Illinois
SMITH SEED CO. — Tolono, Newman, Illinois
SOMMER BROS. SEED CO. — Pekin, Illinois
SWANSON FARMS — Galesburg, Illinois
C. W. THORP & SONS CO. — Clinton, Illinois
COMPAGNIA IBRIDI MAIS — 9 Via Rugabella — Milano, Italy
MAICES HIBRIDOS Y SEMILLAS S.A. — Calle De Mallorca 250 — Barcelona, Spain

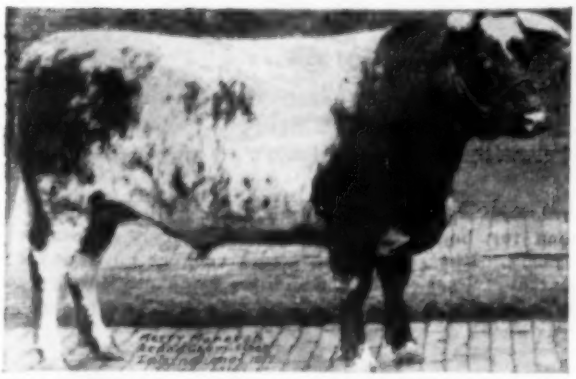
Remove and keep this CORN GUIDE for future reference



This prize Shorthorn steer came from herd of A. L. Harrah of Jasper county, Iowa. It was shown in a livestock advertisement in June 3, 1892, issue of Iowa Homestead.

Judges look for new beef type

Calf is improvement over rangy mother. Old photo from Held Bros. of Plymouth county, Iowa, shows how breeding made changes.



This is the type judges looked for in 1917. He was grand champion at the International that year. But type change didn't stop there.

This is the type of livestock judges look for today. Shown is Barbara Clausen of Clay county, Iowa, with her reserve grand champion of the fat steer classes at the 1954 International.

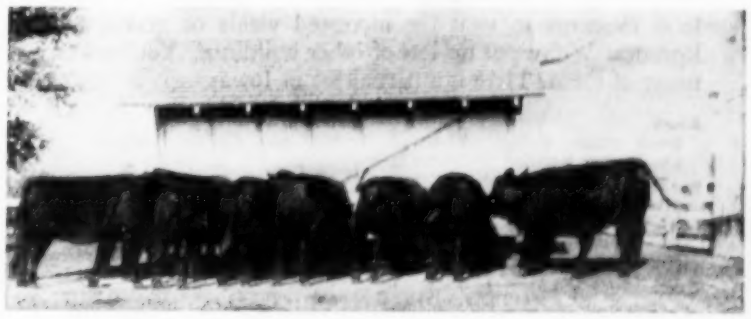
Increase Beef Profit with "4×4"

The beef program that leads the rest— in new developments . . . results!

Now, Walnut Grove "4x4" Beef Supplement contains 6.7 instead of 5 miligrams of Stilbestrol per pound. This means you can provide maximum daily recommended levels of Stilbestrol when you feed your cattle one to 1½-lbs. of "4x4" per head per day. Get maximum growth stimulation with less supplement. Increase your gains—yet, save feed costs.

Look at these typical results obtained by "4x4" users:

Don Praemer, Battle Creek, Nebraska, has proof that feeding "4x4" Beef Supplements saves costs and increases gains. Don ran his own feeding tests using 2 lots of 15 head each. The scales showed that the lot fed "4x4" Beef Supplement with Stilbestrol averaged ½ pound more gain per day than the cattle which received another supplement containing Stilbestrol. Cost per pound of gain on the "4x4" test cattle was 15.3 cents—compared to 21.3 cents on the other lot. Mr. Praemer switched all his cattle to "4x4".



A few of the 125 Angus fed by Wallace Conrad, Adair, Iowa, farmer and feeder. Mr. Conrad gets gains on his cattle for 18 to 20c per pound. Daily gains ran from 2.5 to 3 pounds. The cattle were fed approximately 1 pound of "4x4" per head per day. Mr. Conrad, who feeds his swine and poultry the "4x4" way has this to say about Walnut Grove: "I have found they are in business to help the Corn Belt farmer."

Compare your results with your neighbors who have fed "4x4"—discover for yourself the "4x4" way to extra beef profit. Get more information today.

Walnut —Grove—

MAIL THIS COUPON TODAY!

WALNUT GROVE PRODUCTS CO., INC. • Atlantic, Iowa

I would like information on "4x4" Beef Supplements

Name _____

Street or RFD _____

Town _____ State _____

'WEITZ' BUILT

Has Meant Progress For One Hundred Years in Iowa

We're builders at The Weitz Company of Des Moines, Iowa. When we congratulate Wallaces' Farmer and Iowa Homestead on its 100 years of service to Iowa and Corn Belt farm folks we congratulate ourselves too.

Our association with the Homestead Company began in 1914 with the erection of the Administration building and East wing of the present plant at 1912 Grand Avenue in Des Moines. We completed the West wing in 1921 shortly after the death of the then publisher, James M. Pierce.

In 1951 we erected a steel structure for paper storage on the idle land by the East Wing. In 1952 and again this year we replaced steel sash and glass frames with glass block. And we are now working on an interior modernization program. So like all Weitz built structures the beginning of the Wallace-Homestead plant was sound. It has been improved and remodeled in keeping with the pace of progress.

Construction going ahead during 1951 on a steel building to store roll paper. Holds a minimum of 25 cars of paper. Visiting corn experts claim it would hold more than 50,000 bushels of corn.

In telling the story of our association with the Homestead Company, we tell the story of our association with many, many firms in Iowa. We have constructed power plants that meant added kilowatts to keep the farm plant running.

We have put up buildings that manufacture goods from the products of Iowa farms. And plants that make the plant food elements so vital for increased yields of grains and legumes. We've put up lots of other buildings. You've seen many of them. Here is a partial list in Iowa:

Ames
Iowa State College Electrical Engineering Building

Boone
Additions to Boone County Hospital and to the Iowa Electric Light and Power Company power plant

Cedar Rapids
Cherry-Burrell Company manufacturing plant

Chariton
United States Post Office building
Addition to Chariton High School

Des Moines
Many well-known buildings including, Wallace-Homestead plant, City Hall, Drake Stadium and Field House, Iowa Power and Light Company office building, Solar Aircraft Company plant, Hotel Fort Des Moines, Hubbell Building, Younkers store building, Valley Bank Building, Securities Building and many others.

Eagle Grove
Consumers' Co-op Fertilizer and Animal Protein plants

Eldora
Elementary school

Grinnell
Five new College buildings

Iowa City
University Library
Two elementary school buildings

Knoxville
Several buildings at Veterans Hospital

Leon
United States Post Office

Marshalltown
Power plant for Iowa Electric Light and Power Company

Muscatine
Muscatine County Hospital

Nevada
United States Post Office

Newton
Part of Maytag Company plant
Two new elementary schools

Ottumwa
Hofmann Building

Washington
Recent addition to Washington High School

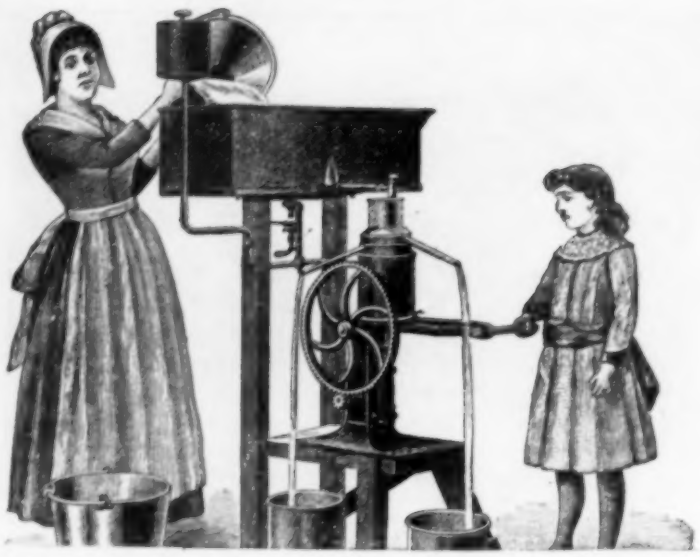
Wellman
Maplecrest Turkey Farm laboratory

THE WEITZ COMPANY, INC.

ENGINEERS AND CONTRACTORS

406 FLEMING BUILDING — DES MOINES 9, IOWA

1955 OUR 100th ANNIVERSARY

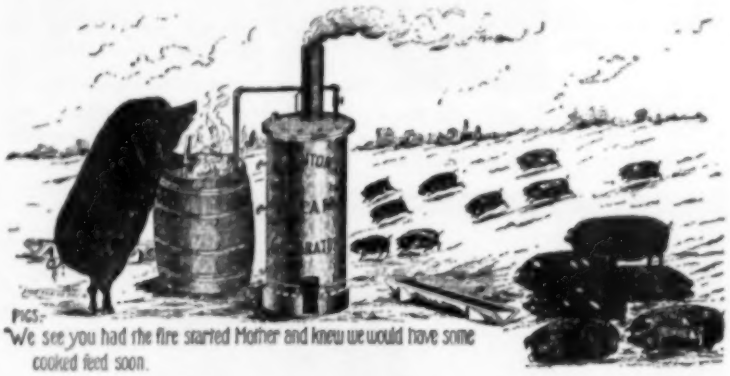


Modern dairying in the 1890's. This is a DeLaval hand-turned model as advertised in the Iowa Homestead of that time.

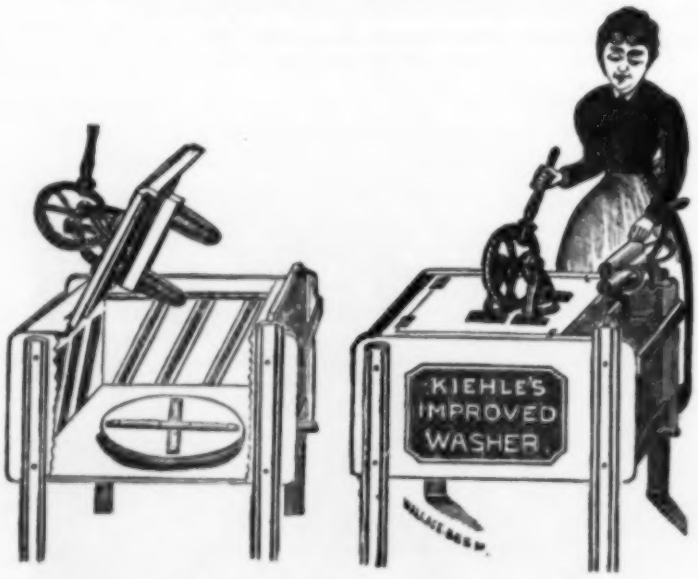
What farmers bought in 1890

OLD-TIMERS may remember some of the machines shown on this page. Pictures were taken from the 1890 issues of the Iowa Homestead.

These machines meant modern, up-to-date farming then. Now they would probably be museum pieces. But to our grandparents, these new machines meant better farming, better living and saving of labor.



Your grandfather was a progressive hog raiser if he cooked rations for hogs. That was the recommended practice in the 1890's. But since then, steam cookers gave way to the slop barrel and soaked feed which were replaced in turn by self feeders. In the 1890's, a hog that reached 200 pounds at 10 months was ahead of average.



Big improvement over the old-fashioned scrub board was this hand-powered washing machine advertised in the March 21, 1890, Iowa Homestead. You needed a strong right arm to do the washing then.

Hand cornpickers would often throw 14,000 ears at the bangboards in one day. Shown here is Cameron Krauel, Audubon county. He was second place winner in the 1941 Iowa corn picking contest.

Recall tales of corn pickers

Farmers' biggest change in 100 years came with mechanical corn harvesting

By Homer Hush

NO CHANGE in farming in the last 100 years has been more striking than the change in corn harvesting methods.

Easily the most interesting period was the hand-husking days of bangboards, pegs, hooks, thumbstalls and 100-bushel men.

Young men and some older ones got a great thrill out of corn husking time. It was, in fact, the athletic event of the year along about the turn of the century.

The corn field, not the football field, was the place where farm boys made records. The score was bushels per day picked and scooped into the crib.

To be known as a big corn picker—a 100-bushel man—was the ambition of most young men. But not all could make it.

You had to be in condition to make records in the corn field. That meant callouses on your hands and muscles hardened to the job.

Then there was a trick to hand husking. Some went at it with a jerky, exhausting kind of action. Others seemed to glide from hill to hill with apparent ease and no lost motion.

Not the least interesting thing about hand husking days were the Saturday evening sessions at the cross-roads store.

Conversation was easy, for the men had been in lonely corn fields from daylight to dark for six days. Past, present and future corn picking were discussed.

As I remember those sessions, a review of the week just passed would come first.

Some fellow would begin with his biggest day, when he had to pick three loads to keep from pulling the team too hard.

Another wanted to talk about his average for the week. That seemed more important to him.

Another bragged about getting to the field so early that he picked by lantern light for the first half hour.

Then the alibis: "Corn's all nubbins where I'm picking," a man would say. It was planted altogether too thick.

Another was slowed up because of chapped and cracked hands which he would exhibit as proof. It seemed that he left blood on most every husk.

About this time some older fellow might get the floor to tell about corn picking as they used to do it.

He'd begin with the days before bangboards were invented. When corn was picked with five men to a wagon and an extra man to haul corn to the crib.

A down row was made every time thru the field, he said. One man picked behind the wagon and two on each side.

How much did each man average per day, some youngster was sure to ask. About 30 bushels would be the reply, and a groan of utter disgust from the would-be 100 bushel men would end the old man's tale.

Farmers always dreamed of a corn picking machine.

Of course they agreed that no such machine was possible. How would a machine pick ears off the ground? And they could think of many more reasons why their important jobs could never be done with a machine.

No one at that time saw what was really so near. That machines would make 500-bushel pickers out of these same men, and with much less hard work involved.

And that even the old country store with its interesting Saturday night stories would be pushed into history with corn-pickers and many other new farm machines.

LOOK *for these signs after tasseling time*

They tell why PRIDE'S Fall Fill Factor and 1-2 plan make a difference that shows up in the crib

THE PRIDE LOOK — **Less firing** — Pride's Fall Fill Factor (F.F.F.) is an exclusive, bred-in quality which prolongs feeding by the corn plant. It keeps leaves green longer; promotes extra leafiness; steps up kernel weight and feeding quality — all without sacrificing maturity.

THE PRIDE LOOK — **Deep, palatable kernels — more feed power** — Pride's longer Fall Fill means added feeding benefits, higher yields. Shell out a handful of Pride kernels and compare. Every small difference here makes a big difference over the scales.

THE PRIDE LOOK — **Stronger shanks for easier picking** — Special inbred strains produce strong-shanked, well-placed ears that snap cleanly—without tearing or pulling the stalk.

THE PRIDE LOOK — **More milk-producing carotene** — Broad, lush, carotene-rich leaves that stay deep green after tasseling—plus well-balanced plants and well-set ears characterize the "Pride look." Dairymen report extra milk from Pride silage — attribute it to Pride's F.F.F.

THE PRIDE LOOK — **Resists drouth longer** — Pride scientists have developed a distinctive, deep-root system that resists dry weather and diseases. Side-by-side results in recent drouths boomed demand for Pride seed in those areas this year.

Grow 100 bushels *plus* on any farm with Pride's 1-2 formula

1. FREE SOIL TEST

Pride supplies a self-mailing container and tests your soil free for nitrogen, lime, phosphorus, and potash. Plan now for 100 bushels plus next year. See your Pride dealer or write to address below.

2. PRIDE F.F.F. SEED

Every Pride kernel with F.F.F. is bred to produce up to 1,500 times its own weight in corn. Pride conducts its own independent breeding program to assure peak yield-performance in each local area.

"Pride" SEED CORN

"The hybrid that research built"

Pride seed corn is available in some areas through your Badger Brand Farm Seed Dealer.

PRIDE COMPANY

GLEN HAVEN, WISCONSIN

in CORN

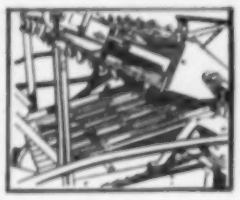
WORLD CHAMPION UNI-HUSKOR

"Be a champ with a champ!"

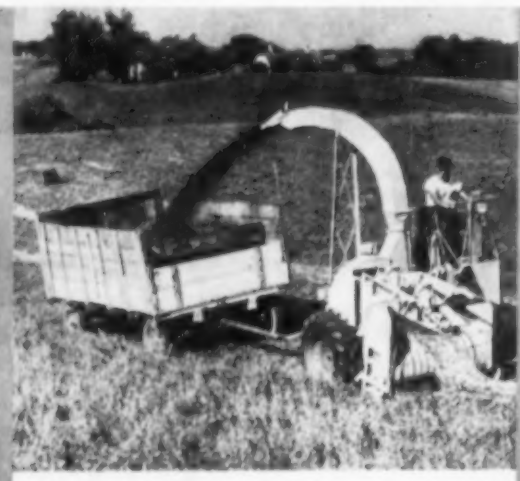
Here's the world champion Uni-Huskor, winner of 1st, 2nd and 3rd prizes in the 1954 International Corn Picking Contest! Profit with advantages like these: Uni-Matic hydraulic height control, the exclusive MM husking bed with ten 36-inch sectional metal-and-rubber husking rolls, rotating and side-to-side raddle action, full length corn saver It's available as a Uni-Snapper without the husking bed. Later the husking bed or a sheller attchment can be added.

EXCLUSIVE HUSKING BED

Oscillating chain raddle rolls the ears as they move over the sectional-roll husking bed. You get thorough husking . . . clean corn . . . gentle handling.



. . . nothing pays like the



UNI-FARMOR CAPACITY . . . CROP AFTER CROP!

UNI-WINDROWER

New Uni-Matic hydraulic height control, big, 10-foot capacity, and perfect self-propelled visibility makes this MM Uni-Windrower outstanding. Independent tractor and machine drives give you the same cutter bar speed for all tractor speeds. You open fields anywhere . . . cut hay and grain as it ripens.

UNI-FORAGOR

Hay or row crops, this MM Uni-Foragor chops to the lengths you want . . . without leaf loss. You set cutting lengths of $\frac{3}{8}$" to 3" without removing cutter knives, quickly interchange hay pickup or row crop heads. With new Uni-Tractor power, you zip through thick, heavy stands where with less power choppers would clog up and stall.

UNI-PICKER-SHELLER

You pick and shell corn in one quick trip with this advanced Uni-Picker-Sheller. You handle corn with up to 30% moisture content, get your crop before corn borers and wind can cut yields. All the champion advantages of the Uni-Huskor, plus best-selling Model D Sheller

MINNEAPOLIS-MOLINE

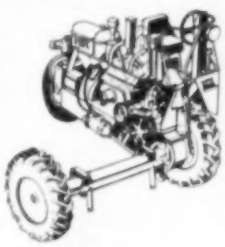
MINNEAPOLIS 1, MINNESOTA *trusted quality since 1825*

... in BEANS

BIG-CAPACITY UNI-HARVESTOR

When other machines pulled out, the MM Uni-Harvestor walked right through this weedy, wind-snarled bean crop. In bean, seed and grain crops, the toughest harvest job goes faster and easier with this compact, powerful, self-propelled machine. The hydraulic controlled header takes a 9-foot cut in grain, handles 2 to 3 rows of beans. You get crop-saving MM Harvestor performance and Uni-Farmor capacity, too!

NEW UNI-TRACTOR
A 20% power boost, hydraulic power steering, new Uni-Belt drive and a choice of regular or high-flotation tires are advantages of the new MM Uni-Tractor. Also available are new crawler tracks for use with the Uni-Harvestor.



MINNEAPOLIS-MOLINE
MODERN MACHINERY

UNI-FARMOR

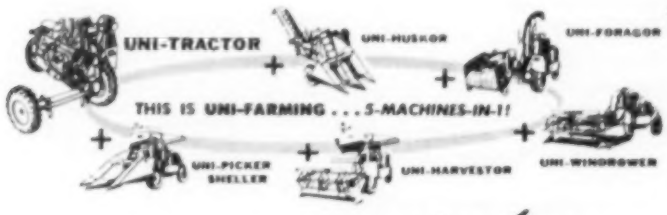
on farms like yours

ON BIG FARMS, ON SMALL FARMS, ON AVERAGE FARMS, ON CUSTOM JOBS — MM UNI-FARMING PAYS THE BONUS PROFITS!

In the morning you husk corn . . . in the afternoon you harvest soybeans—with the same, basic, self-propelled machine! That's MM Uni-Farming . . . the one *new* farming system that makes money for you all summer long, in crop after crop!

BETTER AVERAGE FARM PROFITS! You don't have to farm by the section, either, to profit by these cost-cutting, self-propelled methods. Not when you own the Minneapolis-Moline Uni-Farmor. This champion multi-crop machine gives you the lower per-acre costs of big-farm production at a price *far lower* than conventional pull-behind machines. Just one example: the Uni-Tractor with Uni-Foragor, Uni-Harvestor and Uni-Picker-Sheller can be yours for as much as *$1500 less* than the 3-plow tractor and pull-behinds you'd need to do the same jobs. That's *saving* money to *make* money . . . real proof that MM Uni-Farming pays as no other farming system can!

NEW UNI-TRACTOR POWER! Now powered and propelled by the new Uni-Tractor with 20% more horsepower, hydraulic power steering, new Uni-Belt variable-speed drive, Uni-Matic hydraulic machine control and perfect visibility, the Uni-Farmor is more than ever your *best machinery buy*. Put it up to your MM Dealer. Ask him to show you how Uni-Farming pays for itself . . . on big, small and average-size farms . . . builds profits with savings you make today!



See your MM dealer or mail coupon for the money-making facts!

MINNEAPOLIS-MOLINE Dept. 48
MINNEAPOLIS 1, MINNESOTA

I'm interested in buying the MM Uni-Farmor for my farm. I farm _____ acres and would like full information on the Uni-Farmor machines checked below:

☐ UNI-TRACTOR ☐ UNI-WINDROWER ☐ UNI-FORAGOR
☐ UNI-HARVESTOR ☐ UNI-HUSKOR ☐ UNI-PICKER-SHELLER
☐ OTHER MM MACHINES: _____

Name _____

RFD _____ Box _____

Post Office _____ State _____

A NAME PROVEN BY 99 YEARS* OF SATISFACTION

"OTTAWA"

This Trademark is Your Symbol of Confidence

A Century of Progress in Serving Iowa Agriculture

On the eve of its 100th anniversary The King & Hamilton Company salutes Wallaces' Farmer and Iowa Homestead as they reach the century mark, a goal proudly achieved. The "Ottawa Line" has marched hand-in-hand with Wallaces' Farmer and Iowa Homestead through the years — fascinating years of invention, development and improvement — hard years of struggle and rugged determination — rewarding years of success and worthwhile contributions to the progressive Iowa farmers. Just as Wallaces' Farmer means truth and service in agricultural reporting, the name "Ottawa" means confidence and service in fine farm equipment. A century is a mighty long time to march together. Age has toughened our sinews — experience has sharpened our knowledge. Even as we observe centennial celebrations, we are facing the challenge of a new century, marching forward along the trail that leads ever upward to new achievements, increasing service, and continuing dependability.

Next year King & Hamilton Co. Celebrates its 100th year in Building Fine Products for the Iowa Farmer

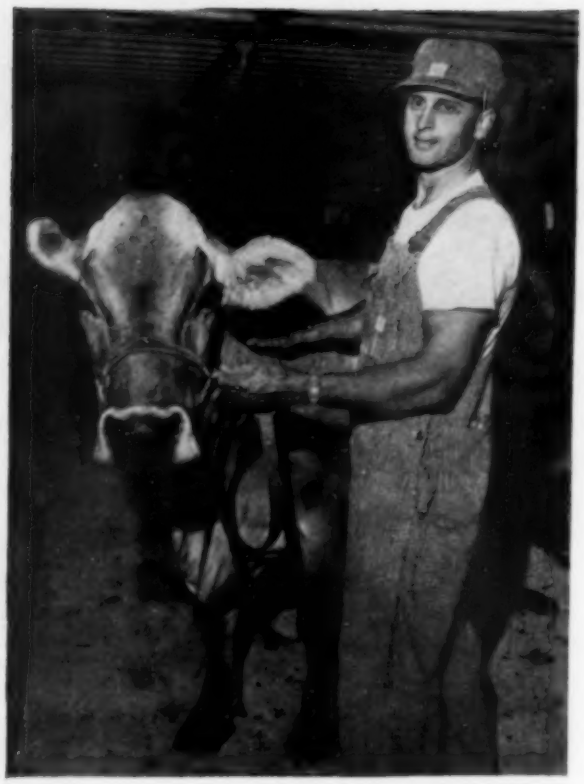
THE "OTTAWA" LINE PRODUCTS

- Portable Elevators—5 models
- Cup elevators — 14 models
- Corn Shellers—3 models, featuring the DS-500—shells in field or out of crib
- Auger Elevators — 2 models
- Running Gears — 2 models
- Mulchers and Packers
- Accessory Equipment

*King & Hamilton founded in 1856. Company became incorporated in 1859.

"THE "OTTAWA" 1859" PIONEER LINE Since

KING & HAMILTON CO., Ottawa, Ill.



"This farm has been held by three generations of Lehmans," says Phil Lehman, dairyman of Polk county, Iowa. "Your paper has been in the family a long time too. Grandfather started taking it many years ago."

"Sixty years in our family"

That's what some readers say about Wallaces' Farmer and Iowa Homestead

HOW LONG has the Iowa Homestead or Wallaces' Farmer been taken in your farm family? Did great-grandpa take it? And have your folks had the paper in the family ever since?

Daniel Starch, Consultants in Business Research, made a survey of readers of Wallaces' Farmer and Iowa Homestead to get the facts on this. They asked:

"How many years has this farm paper been read in your family"

This is the kind of answer they got:

Less than 10 years	5.9%
10-19 years	7.4
20-29 years	17.3
30-39 years	17.8
40-59 years	39.3
60 or more years	6.9
Don't know	5.4

Nearly half of the subscribers could report that the farm paper had been in the family for 40 or more years. And seven percent reported family readership for 60 years.

Starch asked another question: "How many years have you read Wallaces' Farmer and Iowa Homestead?"

Just half of the farm people interviewed said they had read the paper 20 years or more. These weren't all older people. Many a 30-year old farmer has started reading the paper at 10 years, and now has a 20-year reading record.

Here in detail is the way farm folks answered the question:

Less than one year	2.0%
1-4 years	6.9
5-9 years	11.4
10-14 years	14.9
15-19 years	13.9
15-19 years	13.9
20 years or more	50.4
Not sure	0.5

Because Wallaces' Farmer and Iowa Homestead was getting ready for a centennial issue, the Starch organization asked another question:

"Are you interested in articles and pictures about farming in your grandfather's or great-grandfather's time?"

	Men	Women
Yes	75.2%	79.2%
No	22.8	19.8
Not stated	2.0	1.0

So the editors welcome to this issue the 77.2 percent who like articles about old-time farming.

Look thru this issue for many articles and pictures in this field. More will appear in later issues during the rest of 1955.

1855 100 1955 YEARS of SERVICE To Farm Families

Centennial Issue August 20, 1955

1910-20

Lard was in high demand. Big, fat hogs found a ready market. The Poland boar (above) topped Iowa State Fair competition in 1914. The Duroc was a champion in 1912.

Hog styles have changed

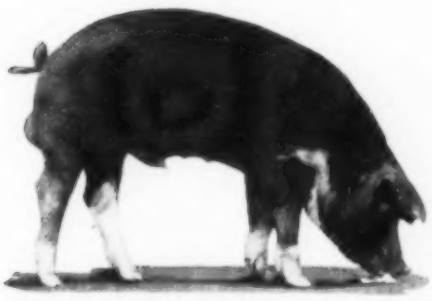
HOGS haven't been the same since the end of World War I. That was when the lard market took a jolt from which it has never recovered permanently.

Up to that time, fat hogs were in style. Seemed you couldn't get 'em too fat—or too big.

But with less demand for lard, bacon-type hogs became the rage. During the 1920's, the long-legged, "race horse" hog found approval.

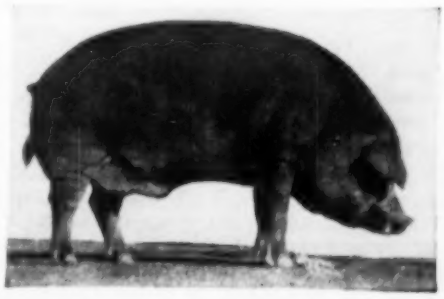
But that hog didn't fill the bill. He didn't convert feed into pork efficiently. He couldn't be finished out at light or medium weights. Some folks called him "meatless."

So the meat-type hog has been getting the emphasis during the last few years. Pictures on this page illustrate changing hog types. All of these hogs were Iowa State Fair champions.



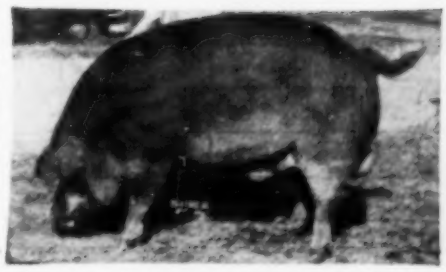
1920's

Bacon-type was the style of the 20's. Duroc boar (right) was an Iowa State Fair champion in 1924. Junior Poland boar (above) was a champion of the same period.



Now

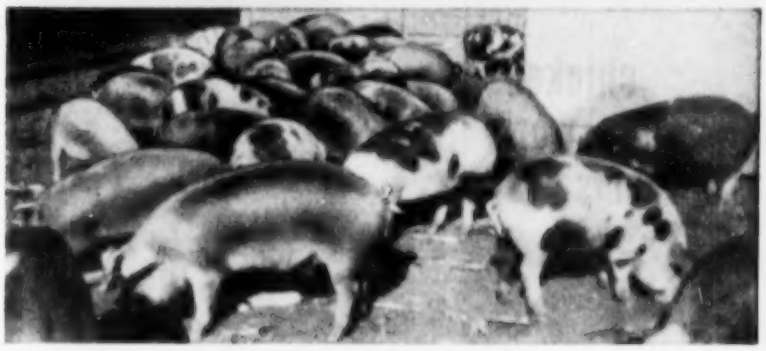
Meat-type now gets the emphasis. These boars were champions at the 1954 Iowa fair. Deep hams, full loins, trim jowls and underlines, a minimum of fat are desired.



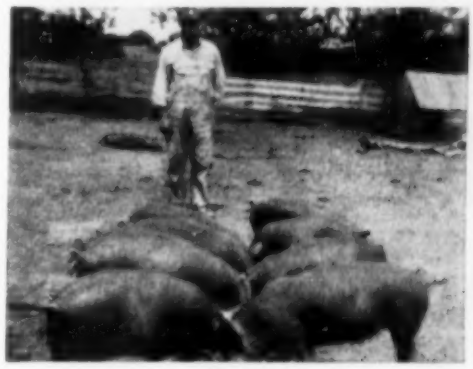
Make Pork FOR 10¢ a Pound

. . . 220-lb. hogs in 5½ months or less with the "4 x 4" Life-Cycle Swine Program

Not just a bag of feed—Walnut Grove offers swine producers a *complete swine* program, based on latest developments in swine nutrition. Look at these outstanding results obtained by typical users:



These hogs, owned by L. J. Kottman, Sheffield, Iowa, averaged 229 pounds at 5 months and one week of age. They were fed "4 x 4" Pre-Starter; "Baby 4 x 4" Creep Supplement; "4 x 4" Hog Grower; and "4 x 4" Breeder-Finisher. Mr. Kottman is convinced of the value of feeding a tailor-made supplement for each nutritional period in a hog's life . . . the "4 x 4" way!



Jesse Gorman, Skidmore, Mo., is proud of this litter of 12 pigs raised on the "4x4" Early Weaning program. They averaged 12 lbs. when Jesse removed the sow. At 8 weeks the pigs weighed 67 lbs. Mr. Gorman says: "We had heard of pigs weighing 50 lbs. at 8 weeks, but this has convinced us that it can be done on the average farm. I have been using Walnut Grove products for the last 5 years and have tried others. The other feeds do not compare in performance or production costs."

Compare your feed program with the "4 x 4" life-cycle swine program. Can you market a 220-lb. hog on less than 10 bushels of corn . . . in 5 months . . . for only $21.52? You can with the "4 x 4" Life-Cycle Swine Program!

"4x4" Life-Cycle Swine Program			
Weight of Hogs	Grain	"4 x 4" Supplement	Grain Supp. Ratio
To 15 lbs.	—	Pig Pre-Starter	
15-25 lbs.	Corn and/or Rolled Oats 67 lbs.	"Baby 4x4" 33 lbs.	2:1
25-50 lbs.	75 lbs.	25 lbs.	3:1
		OR	
15-25 lbs.	Corn and/or Rolled Oats —	Pig Toastles From Bag	—
25-50 lbs.	50 lbs.	50 lbs.	1:1
50-75 lbs.	Grain 1750 lbs.	Hog Grower 250 lbs.	7:1
75-125 lbs.	1800 lbs.	200 lbs.	9:1
125 lbs.-Market	Grain 1800 to 1850 lbs.	Breeder-Finisher 200 to 150 lbs.	9:1 to 13:1

"4 x 4" Life-Cycle Swine Feeding makes sense . . . and pays off in results. The program starts with the sows during gestation . . . so don't delay. Get more information and raise your Fall pigs the least cost, least time, "4 x 4" way!

Walnut Grove

"4x4" LIFE-CYCLE SWINE PROGRAM

MAIL THIS COUPON TODAY!

WALNUT GROVE PRODUCTS CO., INC. • Atlantic, Iowa

I would like more information on the "4 x 4" Life-Cycle Swine Feeding Program.

Name _____

Street or RFD _____

Town _____ State _____

Now from the laboratories that have developed countless new important medicines to help poultry raisers:

AN OUTSTANDING NEW drinking water POULTRY WORMER

chickens worm themselves

DR. SALSBURY'S

WAZINE

(Pronounced WAH-ZEEN)

easily quickly

REMOVES LARGE ROUNDWORMS

CONVENIENT • EFFECTIVE

Since its first ad appeared in Wallaces' Farmer and Iowa Homestead, over 25 years ago, Dr. Salsbury's Laboratories has been dedicated to service to poultry raisers in Iowa and the country over. Its growth, nationally, is indicative of the scientific and practical *value* of that service. *Typical* of that service is the introduction of WAZINE.

WAZINE is the result of more than five years of exacting research by Dr. Salsbury poultry scientists. It not only brings new convenience to worming poultry, it is *highly effective*. WAZINE actually *eliminates over 95%* of the large roundworms!

TASTELESS • ODORLESS

When properly diluted, WAZINE is a colorless, tasteless, odorless liquid. Can be used in any type of water and any kind of water fountain.

SAFE won't knock production

WAZINE is non-toxic. Does not affect water consumption. Is recommended for all chickens over 4 weeks old. Treatment can be safely repeated to *keep* large roundworm infection at a minimum. Won't knock production—infected birds *lay more* after treatment!

ECONOMICAL

Just two ounces of WAZINE in five gallons of water treats 100 birds. Increased production more than pays for medication. Available in ¼ pts. (treats 200 birds); ½ pts. (treats 400 birds); Pints (treats 800 birds); Quarts (treats 1,600 birds); Gallons (treats 6,400 birds).

Save Time and Money

Don't let worms waste your feed, stunt growth, spread disease and cut egg production. Start worming your birds this new easy way—with effective and economical Dr. Salsbury's WAZINE. Ask your hatchery, feed or supply store for WAZINE today, or write for literature.

DR. SALSBURY'S LABORATORIES
Charles City, Iowa

When you need poultry medicines, ask for

Dr. SALSBURY'S

A hen feeding a chick a worm. This was a common thing around farmsteads for many years. Incubators generally have taken the place of setting hens in hatching chicks. But in 1954, five percent of chicks were still hatched by hens.

100 years of poultry progress

1. breeding
2. feeding
3. management

FARMERS in Iowa, 100 years ago, let hens rustle for feed. About 60 years ago, cooked feed was recommended for hens. Now we know about confinement and balanced rations.

Progress in breeding and management has been fast and revolutionary, too.

A highly efficient poultry business has been the result. Each area — feeding, breeding, and management—has contributed to this advance.

Breeding

In the midwest, almost every farmer tried to be a poultry breeder. Each farmer kept several breeds of chickens.

The Dominique was the first breed developed by crossing chickens here in America.

The Dominique was a comparatively small breed that was more of an egg type. This breed became a popular farm chicken. For many years, all birds with the same coloring were called Dominique regardless of breed.

The Rhode Island Red breed was developed about 1854. Hens of this breed laid more eggs and are still known the world over for their egg laying ability.

Most Iowa farmers kept several breeds of chickens—some for eggs and some for meat. It was believed there was no general purpose bird that would lay a lot of eggs and have good meat.

After eggs were laid, they had to be held until a hen decided to "set". The development of artificial incubation of eggs was a great boost to poultry breeders.

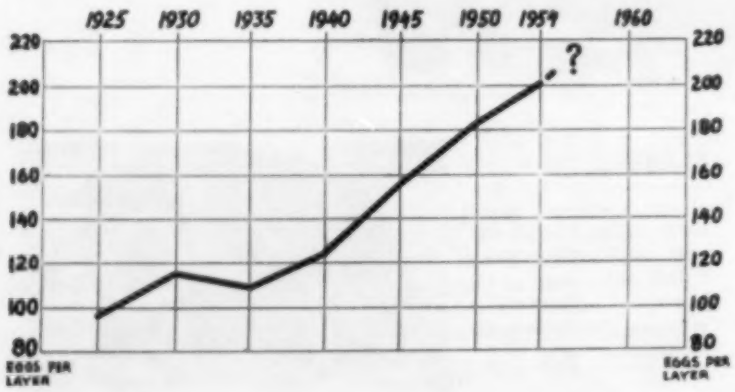
Artificial incubation had been used by the Chinese and the Egyptians for thousands of years. But incubators weren't used in America much before 1875. People who had incubators started to hatch chicks for other farmers. Poultry breeding was turned over to these hatchery operators.

Hatchery operators constantly tried to improve their chickens. A hatchery operator started with a breed, and developed a "strain" within that breed. Even today the strain you buy is more important than the breed.

Some strains of a breed will grow faster and more economically than others. Some strains will lay almost twice as many eggs as other strains in the same breed.

After the development of hybrid corn, it was learned that chickens could be improved by using the same breeding method. Several breeders are producing hybrid chicks which have been bred for high egg production.

New breeds have been developed for the broiler industry. Here the aim has been lots of



breast and thigh meat plus high feed efficiency.

Feeding

Chickens were allowed to "scratch for their feed" for many years after the midwest was settled. The hens were fed grain and were allowed the run of the farmstead.

On this feed, hens didn't lay many eggs. The Iowa Homestead of January 24, 1890, says:

"Very often the reason that hens and pullets are not laying is on account of being too fat. Fowls with limited range are apt to become lazy and consequently assume fat. We have always had the best success when we buried our grain and made the hen scratch for her living. Another good mode for exercise is to hang up cabbage heads or other greens. The fowl will have to jump for every piece".

Feeding methods have improved since then. So has the feed. Feed is now kept before the hens at all times.

Commercial laying and broiler feeds are now fortified with everything from vitamins to antibiotics. And the chickens now eat better than ever. They grow faster and lay more eggs.

Management

Chickens were left to manage for themselves by the early settlers. The hens roosted in trees, on the barn, etc. Eggs were laid everywhere—in weed patches, under the barn, on the hay stack.

As late as 1890 it was believed that chickens could not be kept in confinement. Fresh air and plenty of range were believed to be necessary to the healthful growth of chickens.

Here are management practices recommended in the January 10, 1890, issue of the Iowa Homestead:

"We have always believed that 300 hens, properly managed, would yield a better return than double the number.

"Our reasons are, first, that no man can properly attend to more than 300 hens himself; second, that it takes a large area of land to properly enclose that number; and, third, that there is too much of a hole in the profits when extra help is employed.

"There is considerably more work about the business than the mere feeding and watering of the fowls and gathering the eggs. When feeding, every fowl should be watched, and those that do not eat, should be looked after. They should have just as much as they will eat up clean, and no more.

"They must be supplied with fresh water daily, in summer twice a day. The droppings must be cleaned up daily. New nests must be made weekly. The supply of grit must be kept up. The fowls must have cooked feed at least three time a day. The sick chickens must be attended to.

"The eggs must be gathered several times a day in winter. Whitewashing must be done about once a month. The roosts must be kerosened once a week in spring and summer, and the buildings and yard must be kept in repair.

"Let a man thus thoroly attend to only 300 and he will not have many hours left in the day. A man that keeps 300 hens may, during the few hours of leisure that he can find, have time enough to raise the bulk of feed needed . . .".

Management of the farm flock has improved. The layers have better houses, feeders, waterers and nests. And under modern management, some chickens are confined all their lives.

Disease control has advanced along with the rest of the improvements in poultry keeping. Vaccinations now prevent many disease losses.

What has been the result of the improvement in the poultry breeding, feeding and management? The graph at left shows increases in egg production from 1925 thru 1954. Records were started in 1925.

Egg production per layer on Iowa farms has increased from 99 in 1925 to 200 in 1954. Rate is still increasing. How high will it go?

MORE EGGS
MORE PROFIT!

VICTOR LAYING FEEDS

VICTOR LAYING FEEDS supply your pullets with properly balanced amounts of essential vitamins, minerals and proteins so that, when fed with your farm grains, you have a top egg-making ration.

VICTOR LAYING FEEDS help your pullets produce *more and better* quality eggs . . . help keep them in good body health . . . save you money on feeding costs.

Plan ahead to make your poultry flock a REAL money-maker. Order the VICTOR LAYING FEED to meet your flock requirements . . . today.

NOW . . . A Complete Line of VICTOR PESTICIDES

★ VICTOR POULTRY ALL MASH GRANULES or PELLETS
★ VICTOR EGG MASH GRANULES or PELLETS
★ VICTOR EGG AND BREEDER GRANULES
★ VICTOR BALANCER MASH (Also Pellets and Granules)
★ VICTOR POULTRY CONCENTRATE

THE CRETE MILLS Division of Lauhoff Grain Co. CRETE, NEB.

Protecto Vermin-Proof Ventilated Poultry Roosts
THEY PAY FOR THEMSELVES IN ONE YEAR

20% More House Capacity

They are ventilated; always clean fresh air over the nests. They are Vermin-Proof; no mites, no lice. Roost poles and dropping guards are always clean; droppings CANNOT gather on them. Floor beneath roosts is dry, sanitary, and well lighted. 100% usable for scratch floor. Assure highest degree of house sanitation and better health for flock.

50% LESS CLEANING TIME

Cleaning is so easy a child can do it. CONSTRUCTION: Aluminized steel angle frame. Extra heavy 22 gauge galvanized steel dropping pans. Kiln-dried Douglas fir roost poles. Extra heavy No. 9 galvanized wire dropping guards. Also made in pit system type. In use 31 years.

When writing, mention size of house and number of birds housed.

We also make nests, feeders, and waterers.

PROTECTO MFG. CO. OWATONNA, MINN.

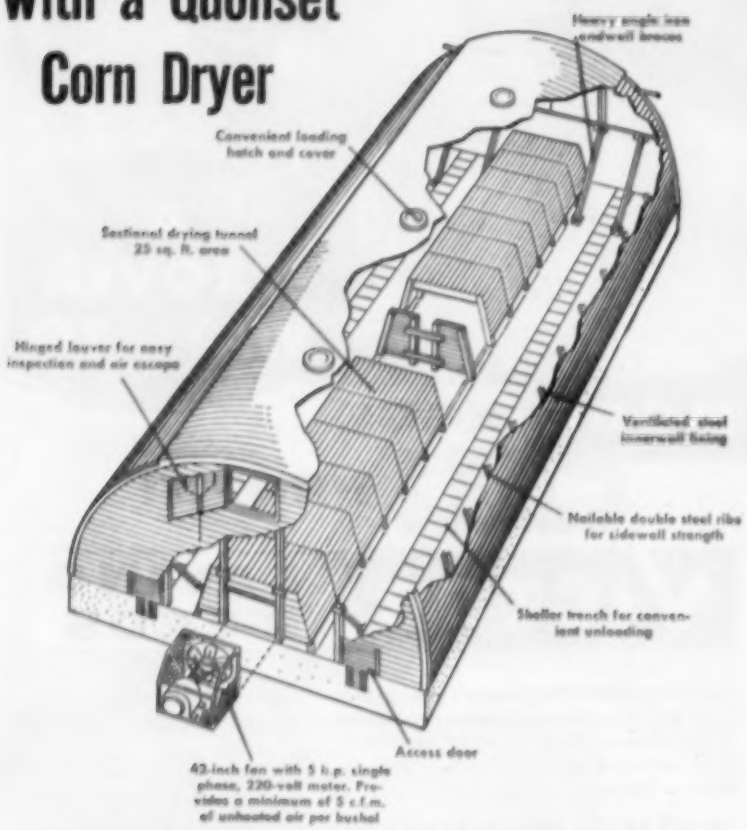
FORAGEMASTER SILO UNLOADER

See State Fair exhibit; 11 big improvements in silo unloading. FORAGEMASTER owners enthusiastic! Such a low price for a genuine heavy-duty machine. Team with our Roto-Bunk for effortless automatic feeding.

For information write to
ROWELL, INC.
752 Vandalia St., Dept. "W"
ST. PAUL, MINN.

When writing to advertisers, will you please mention this paper?

Get more bushels per acre, greater profits, with a Quonset® Corn Dryer



You can pick earlier and store and dry your grain safely with a Quonset 32 ear-corn drying and storage building. Early picking means higher yields—drying in storage, with unheated air, lets you hold your corn safely until the price is right. In a soft-corn year, a Quonset drying building can save the loss of an entire crop. And the clear-span Quonset construction makes this building adaptable for machinery storage or almost any other farm building use when not needed for corn.

Quonset corn drying and storage buildings are eligible under the new income tax provisions that permit farmers to depreciate, for tax purposes, the full value of buildings used for grain storage in five years. Tax savings alone will pay up to 25 per cent of the cost of the building in five years.

Easily financed on the Quonset Purchase Plan. Quonsets for corn and small grain storage are also eligible for CCC Storage Facility Loans on 80 per cent of the cost for four years at four per cent interest.

C. F. Meyer, New Liberty, Iowa, dries and stores 3,000 bushels of shelled corn picked at high moisture content in this Quonset 16 x 36 all-purpose drying and storage building.

"It took just two weeks, running ten hours a day, to dry 6,000 bushels of corn to a moisture content of 15.7 per cent, which is safe for storage, at a cost of one-half cent a bushel," says H. F. Smith, Harvard, Nebr.

STRAN-STEEL CORPORATION
A Unit of
NATIONAL STEEL CORPORATION

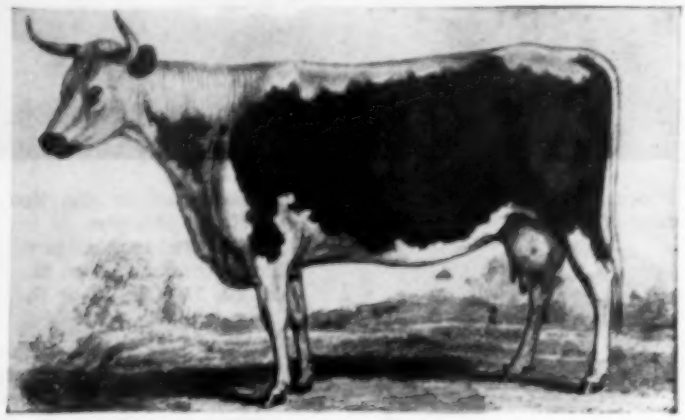
STRAN-STEEL CORPORATION
Ecorse, Detroit 29, Michigan

Please send me the latest literature on Quonsets for farm service buildings.

Name _____
Address _____
City and County _____
State _____ 25

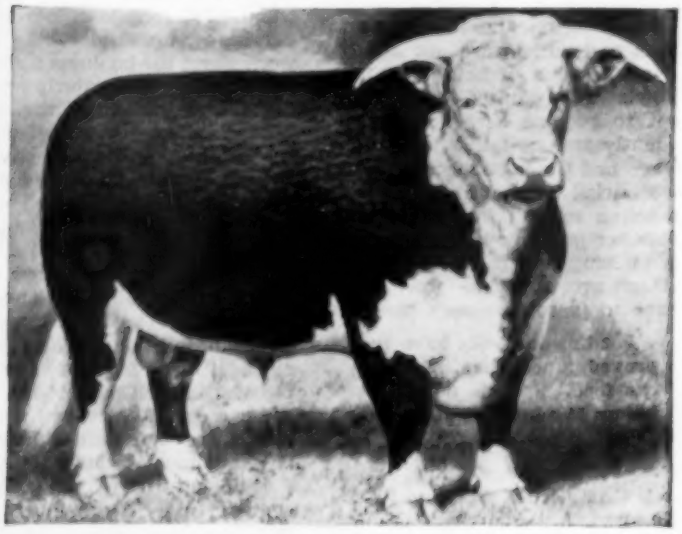
Big change in beef type

from over 100 years ago



Tall and rangy. Early emphasis was on rugged animals that could take care of themselves. This cow descended from first imported Herefords.

thru a medium type



to 1954 champion model

Low-down and blocky. Efficient meat production is one of major breeding goals now. Shown is champion Hereford bull of 1954 International.

Hoppers pushed settlers out

Grasshoppers were Iowa's major insect pest until corn borers moved in.

Hit northwest Iowa year after year in the 1870's

IOWA'S greatest insect panic occurred in the 1870's—when clouds of locusts descended on northwest Iowa, leaving complete devestation.

Green fields of corn were chewed to the ground. Pastures and grain fields were swept clean.

The ground in places was blanketed with two and three inches of crawling, biting insects.

Small streams and ponds were contaminated with dead locusts. The problem of getting drinking water was acute in some areas.

Trees and shrubs were so loaded with locusts that limbs broke under the weight. The locusts chewed up harness, clothes—everything in sight.

Those locusts actually were certain kinds of grasshoppers in the migratory stage. They returned for several years in succession—with the last big attack in 1878.

Settlers were helpless before the advancing clouds of hoppers. Some tried to smoke out the hoppers or beat them off crops—to little avail.

Some of the settlers even decided that it was impossible to grow crops in northwest Iowa. They deserted their farms—or sold out for practically nothing.

In an 1877 issue of The Iowa Homestead, a writer from O'Brien county, Iowa, reported:

". . . Grasshoppers swept grain from the fields. . . The farmers were panic-stricken. They lost all hope. 'We must get away from here,' some said. . . There were many that sacrificed everything they had gained by years of toil, and went in search of a place where they could find some reward for their labors."

After the damage of the 70's, the hoppers became of less importance. In fact, it wasn't until the dry 1930's that hoppers again became a major threat. And by that time, poison baits had been developed.

And it was in the 30's that airplane application of insecticides was introduced. Now, of course, farmers can control hoppers with only a few ounces of insecticide per acre. Aerial application of modern insecticides would have made quick work of the clouds of locusts that brought disaster 75 years ago.

But hoppers have never since moved in on Iowa in such hordes as during the 1870's. Why not?

Probably there are several reasons, speculates Dr. H. M. Harris, state entomologist. He thinks the most important reason is that hoppers no longer have such ideal breeding places on the western plains. Wheat farmers broke up those breeding grounds.

But prior to the 1940's, the grasshopper was the biggest insect threat to Iowa farming, Harris believes. By that time, new chemicals were making hopper control easier. And the corn borer had moved into Iowa.

Of course the list of insects that have caused great damage in Iowa is long. The Hessian fly, for example, was causing severe wheat crop losses as early as the 1860's.

And there was the chinch bug outbreak of the 1930's. Much damage resulted. Now, however, chinch bugs can be controlled with relative ease thru the use of newer insecticides.

Vegetable and fruit insects have always plagued Iowa farmers. In fact, it was fear of the San Jose scale—a fruit insect that came to California from the Orient—which prompted creation of the office of state entomologist along with regulatory policies for movement of seeds and nursery stock in 1898.

Insect control work began at Iowa State College in 1870. And a department of entomology and zoology was created in 1885. Since that time, farmers have been assisted by an increasing flow of information about insects and methods of controlling them.

However, insect control has made greater advances during the last 15 years than it had made during the preceding 100 years. Thanks to new chemicals—and to the years of insect study that preceded them.

Here's fast, effective, low-cost fly control!

4 proven MACKWIN Agricultural CHEMICALS FLY KILLERS

to fit YOUR fly control method!

1 FLY HOT FOOT

FOR SURFACE SPRAYING

A RESIDUAL SPRAY CONCENTRATE CONTAINING MALATHION

Safe for use inside dairy barns. Kills DDT and other resistant strains of flies. Just dilute with sweetened water and use as a surface spray. Kills on contact! One pint makes two to three applications, gives GOOD fly control for a month to six weeks in average size barn! !

$2.75 Pint

2 HOT FLY LUNCH

FOR 'SPRINKLE' BAITING

A GRANULAR MALATHION BAIT KILLER

Attracts and kills resistant strains of flies. Sprinkle on floors, window sills, outside entrances, etc. Two-pound size treats average size dairy barn six to eight times. Each application lasts several days. Replace as consumed.

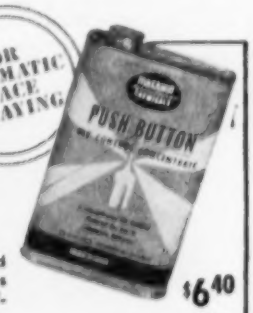
$1.50 Two Pounds

3 PUSH BUTTON FLY CONTROL CONCENTRATE

FOR AUTOMATIC SPACE SPRAYING

ONE QUART MAKES FIVE GALLONS OF

Low-cost, effective spray. Finely atomized particles of fogged spray kills flies in every nook and corner . . . harmlessly settles to provide cows with lasting protection while in pasture. Half-pints, pints, quarts.



$6.40 Pint

4 PUSH BUTTON FLY SPRAY

FOR AUTOMATIC SPACE SPRAYING

A READY-TO-USE FLY SPRAY

Has all the advantages of the Push Button Fly Control Concentrate in ready-to-use form. Gives quick knock-down and complete kill when used as directed in an automatic space sprayer. Available in one and five gallon containers.

$3.70 Gallon

DEALERS: Mackwin formulates a full line of quality-controlled fly killers and a complete line of pesticides and agricultural chemicals. A few choice territories are available.

The MACKWIN Company
WINONA, MINNESOTA

How LENNOX Drying produces $1338 in Extra Crop Profits in 1 Year

THIS SINGLE YEAR'S ADDED CROP INCOME MADE ON ONLY 60 ACRES OF CORN

The chart below shows one example of the profit-producing benefits of a Lennox Batch Drying Bin. On an average 180 acre farm, 60 acres of corn produced an average of 60 bushels per acre or a total of 3600 bushels of corn. With 15.5% moisture corn figured at $1.30 the EXTRA PROFIT gained by drying corn in a LENNOX Batch Bin amounted to $1338. This was corn picked at 30% moisture.

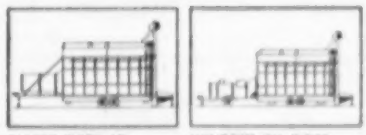
Moisture Content	Total No. of Bushels	Discount Lost on Moisture if Sold at Picking Moisture	Shrink Cost Due to Drying Corn to 15.5% Moisture	Your Extra Profit Gained by Drying Corn to 15.5% Moisture
20.0%	3600	$ 595.00	$210.10	$ 384.84
25.0%	3600	$1314.00	$443.16	$ 870.84
30.0%	3600	$2034.00	$695.52	$1338.48
35.0%	3600	$2754.00	$902.52	$1851.48

IT PAYS TO DRY CROPS with the new LENNOX

Recirculating

BATCH DRYING BIN

KEEPS AHEAD OF THE BEST PICKER SHELLER UNIT — SKIN STRESSED AIRCRAFT TYPE DESIGN — IN SEVERAL CAPACITIES



DIRECT FIRED LP OR NATURAL GAS — INDIRECT OIL FIRED

With the Lennox Batch Drying Bin you get important uniform drying quality. That's because Lennox Batch Drying Bin recirculates grain in the A-Shaped drying legs back into the hopper. Grain on the outside of drying legs dries uniformly because it's automatically moved to the front of leg next to drying chamber. Easy loading or unloading into hopper, truck or bin. You can dry as little as 75 bushels or up to 600 bushels. A 300 bushel unit easily converts to a 600 bushel unit. Lennox Batch Drying Bins are easy to erect —stationary or portable units available.

LENNOX
FARM EQUIPMENT DIVISION
THE LENNOX FURNACE COMPANY
DES MOINES, IOWA

Manufacturers of a complete line of crop drying equipment, grain aeration fans, wagon box drying units, portable heating units, hay drying fans, crop dryers, and batch bins.

SEND FOR THIS NEW, FREE REVISED 1955 EDITION CROP DRYING MANUAL
THE LENNOX FURNACE COMPANY
Farm Equipment Division
Department 204, Des Moines, Iowa
Yes, I am interested. Please send me a new Crop Drying Manual. I am interested in:
☐ Lennox Batch Drying Bins ☐ Lennox Cropmasters
My Name_____
Address_____
City_____
State_____ Zone_____
Please give us the name and address of your favorite Farm Implement Dealer_____
Address_____

FROM THE FOLKS WHO KNOW CROP DRYING BEST

Six-horse hitch was common on farms in the twenties. But since that time, tractors have replaced 20 million horses. And men have been replaced too.

20 million horses were replaced

Farm life was thoroly shaken up as population went down, production up

By Homer Hush

WHEN farmers traded their horses for tractors, few realized the shake-up ahead in farm life.

Fewer men were needed on farms. Farm population went down both in total and in percentage of U. S. population.

As farms got larger, old community organizations proved to be too small. Churches and schools felt the shock.

Food and feed production went up both in total and in production per worker.

Feed once eaten by horses and mules was transferred to food for people.

Farming became a business with high investment requirements. And with the risks that business brings.

On the whole, mechanization made the greatest change in farming in over 100 years. Let's note some of the dislocations as well as some of the benefits machines brought.

* * *

In the days of horse power farming, a man operating 160 to 200 acres needed a hired man at least five months in the year.

But with a tractor, this 160 to 200 acre farmer could do his own work. Larger farmers who still needed hired men employed married men who lived in a small house on the farm.

So tractors changed the farm labor situation. Farm boys in the South began to go to factories rather than farms. Transient farm help disappeared in the Corn Belt.

And now farmers with underemployed tractors are looking for land to farm instead of workers looking for farm jobs.

* * *

You probably see the trend to larger farms and fewer people in your own neighborhood. Abandoned farmsteads are the evidence. The national shift is shown by figures.

From 1920 to 1954, U. S. farm population went down about 28 percent. In the same period, U. S. total population went up over 50 percent.

To put it another way, farm population was 30 percent of the U. S. total in 1920. Now it is 13.5 percent.

This shift in population, mostly brought about by farm mechanization, upset farm community organization.

School districts came to have too few pupils. Rural churches lacked support. Reorganization became necessary. We are just now struggling with the school problem.

It appears that the new rural community organization will be built around town and village organizations. In this, it will be quite different from the old.

* * *

Tractors allowed a lot of grain and hay to be turned into food for people. Maybe you haven't realized how much this added to food surpluses.

In 1920, U. S. farmers had about 26 million horses and mules. In 1953, they had only six million.

Iowa farmers had 1,469,000 horses and mules in 1920. And only 143,000 in 1953. Other Corn Belt states show about the same change in work stock.

You can keep a cow with what a horse will eat. So the feed for 20 million horses that have disappeared would raise probably 18 million calves per year. Or perhaps nine million calves and nine million hogs.

This addition to market grain

(Continued on next page)

Machines boosted living standards

(Continued from last page)

and meat supplies was a big factor in making farm surpluses from about 1930 to 1945. We can be glad now that conversion from horses to tractors is behind us.

* * *

Tractor power also brought a change in farm business. Farmers raised feed for horses and mules. Gas and oil had to be bought for cash.

That was a hardship in depression days. But it isn't at this time.

Corn and hay to feed five horses to do the work on 160 acres would be worth much more than the cost of the gas and oil to do the job.

There's a net gain for the farmer in cost of fuel for power since the adoption of tractors.

* * *

The increase in per man production, however, is the tractor's most important contribution. Here are some figures on that.

Output per man hour of farm labor is now one and one-half times what it was in 1920. Increase is figured at 146 percent.

Each farm worker today produces about enough food and fiber for 18 persons. In 1920 the farm worker produced enough for about eight.

Of course better seed and fertilizer had a part in this increase. They made higher yields. But tractors made it possible for one man to grow twice as many acres as with horse power.

* * *

Farm machines have brought farmers the highest standard of living they have ever enjoyed. More houses have bathtubs than ever before. Farm children have the best educational opportunities any have ever had.

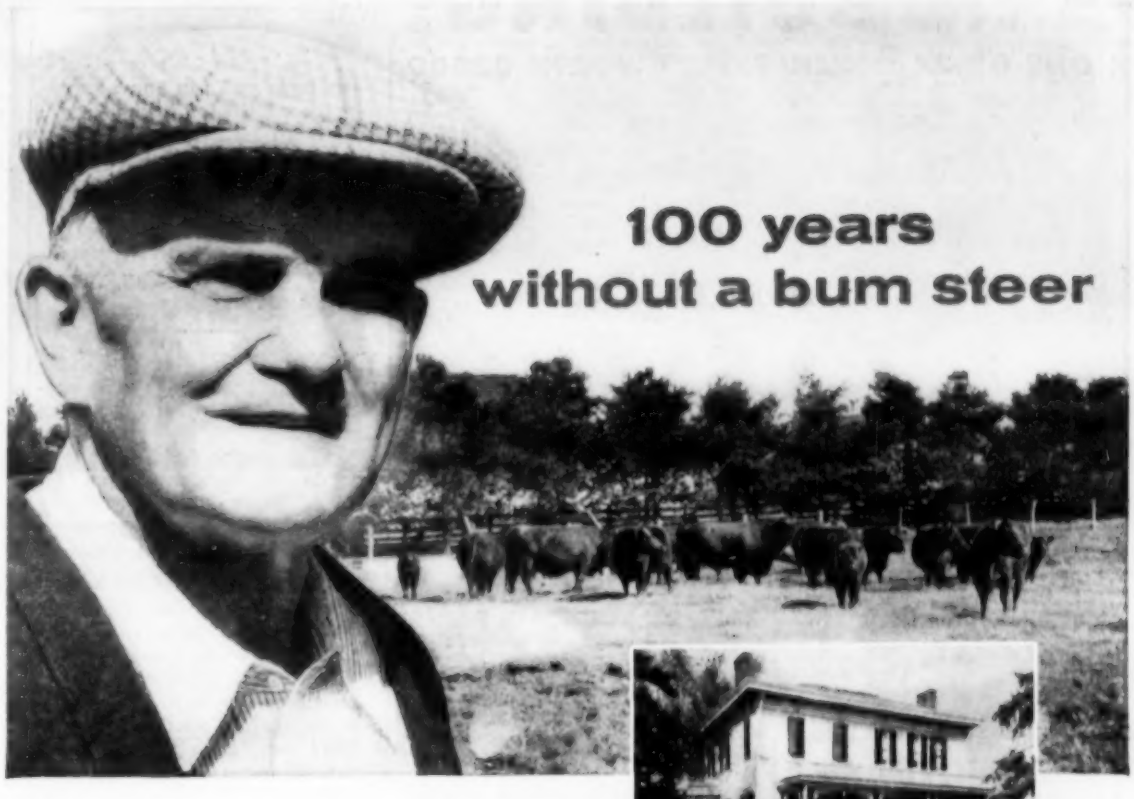
Machines have saved labor, made work easier, and opened opportunities for those who can adopt a farm management plan that fits machine farming.

Along with these advantages, mechanization has brought farm business risks. Some farmers have been squeezed out. And some community activities have been ended that seemed to have real value.

But no one would retrace the steps of the last 30 years when farm mechanization was being adopted. Net gain from mechanization is very great for both farmers and all other people.

And many farmers and many communities have not organized to take full advantage of machine farming as yet. There can be much better conditions than we have now.

WHAT HAPPENS to crops grown on soils contaminated with atomic blast residue? Tests showed that bean and radish plants absorbed quite a bit of radioactivity. Corn, about half as much. Absorption was gradual in all plants to the point where the growth was stopped by severe injury.



Spanning 3000 acres of Central Ohio's richest pastureland is the over 100-year old Greenwood Farm at South Charleston.

Here, in 1852, David Selsor began what may very well be the oldest shorthorn farm in existence today. Soon after, he gained the reputation of "Cattle King of Ohio". . . but strangely, he and other cattlemen encountered the problem of *too many* shorthorns, due to the unsurpassed grazing area in Central Ohio.

That problem was quickly solved, however, when cattlemen began shipping by rail, reaping rich markets in distant cities. Greenwood was one of the first, as evidenced by a receipted shipping bill to Baltimore dated 1871. And as the market for beef cattle increased, so also did the Greenwood reputation for top quality . . . and today, over 100 years since its founding, Greenwood's shorthorns are famous throughout the industry. Carrying on his grandfather's tradition, David Selsor Graham, with his aunt Zella Selsor, now develops the prize herds of Greenwood Farms.

But unlike his grandfather, Graham has the advantage of dozens of modern machines to help care for his 3000 acres . . . machines kept in top condition for the last 20 years with Cities Service Gasolene, Oils, and Greases. "I've tried to see if anyone had anything better," he says. "But over the years I haven't discovered any products that can do the work of Cities Service. Nothing but Cities Service Products will be used on this farm."

Mr. Graham's loyalty to Cities Service Products is typical of thousands of farmers throughout the country. Once you try them, you'll discover why. Talk it over with your local Cities Service Distributor.

Erected in 1852, the charming Greenwood home has lent atmosphere and background to the great stock farm, attracting many visitors.

Shorthorn with Long Ancestry is this Greenwood Desire Bull. For over 100 years, his forerunners have been top grade beef cattle, raised by the "Cattle King of Ohio."

David Selsor Graham, grandson of Greenwood Farms' founder, carries on family tradition. Aiding him are modern machines, unknown to grandfather, for which he uses only Cities Service Products. "None better," he says.

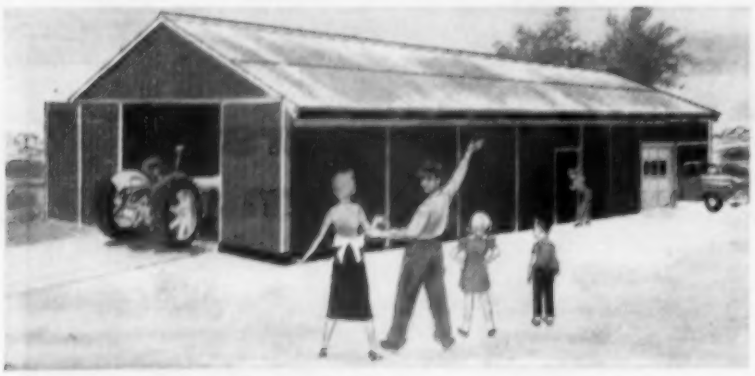
DEPEND ON MACHINES FOR YOUR FARM AND ON CITIES SERVICE FOR YOUR MACHINES

CITIES SERVICE

QUALITY PETROLEUM PRODUCTS

WIN A $3500 FARM BUILDING!

OR ONE OF 34 OTHER PRIZES WORTH $3000



FIRST PRIZE! This $3500, 30′ clearspan, pole-frame building, or any other equal-value, pole-frame building of your choice, made of long-lived Penta pressure-treated wood, set up on your farm ready to use! Plus—a bonus for the First Prize winner's family: a year's supply of *"all,"* Monsanto's wonderful "controlled suds" detergent!

4 SECOND PRIZES, each worth $250, of Penta pressure-treated, first-quality lumber.

10 THIRD PRIZES, each worth $100, of Penta pressure-treated fence posts, good for 30 years or more, delivered to your farm ready for use.

20 FOURTH PRIZES, each worth $50, of Penta pressure-treated Masonite® Tempered Preedwood® in assorted sizes.

Here's all you do to enter! There's nothing to buy! Get your Official Entry Blank from your local lumber dealer. Answer the few easy questions correctly, and mail it. All winners will be chosen by blindfold drawings.

CONTEST RULES

Monsanto-Penta "Win A Building" Sweepstakes

1. Answer the four questions on the official Penta Sweepstakes entry blank and fill in your name and address. YOU MUST ANSWER THE QUESTIONS CORRECTLY TO BE ELIGIBLE FOR THE DRAWING.

2. Mail entry to Monsanto-Penta "Win A Building" Sweepstakes, Box 5651, Chicago 77, Illinois. Entries must be postmarked before midnight, September 9, 1955.

3. All persons are eligible to enter, except employes of Monsanto Chemical Company, participating treating plants and suppliers of Penta pressure-treated wood, participating dealers, any advertising agency connected with any of the foregoing, or their families. This promotion subject to Federal, State and local regulations.

4. Prizes will be awarded on the basis of a BLINDFOLD DRAWING by name, under the direction of Reuben H. Donnelley Corporation, whose selections are final. Winners will be notified by mail. Prizes must be accepted within six months.

PENTA

pressure-treated wood

Saves Money and Work... Makes Building Easy

Penta protects wood from decay and all wood-destroying insects including termites. Pressure-treating with Penta leaves wood clean, non-sticky and easy-to-handle (won't "burn" hands). Penta pressure treatment is the best treatment because it provides maximum protection—increases wood life up to 4 times, can extend wood life to 30 years or more. Preserving wood with Penta saves you the time, work and cost of replacing untreated wood.

Look to Monsanto for chemicals to make farming easier... more efficient... more profitable for you.

HERBICIDES... 2,4-D • 2,4,5-T • MCP-90 • Chloro-IPC

INSECTICIDES... DDT • Parathion • Methyl Parathion

GRASS SILAGE PRESERVATIVE ...Medo-Green*

MONSANTO CHEMICALS—PLASTICS

SERVING INDUSTRY... WHICH SERVES MANKIND

*Reg. U. S. Pat. Off.

CONTEST CLOSES SEPTEMBER 9, 1955
GET YOUR SWEEPSTAKES ENTRY BLANK TODAY!

Is your drinking water safe?

From 70 to 75 percent of the farm wells in Iowa may be contaminated, reports Kenneth L. McFate, agricultural engineer at Iowa State College. Most contamination is due to surface and seepage water entering the well. In this article, McFate suggests ways of safeguarding your water supply.

PROTECTION of your drinking water begins with protection of the well from which it comes.

New wells should be located at least 75 feet—preferably 100 feet—from barnyards, cesspools, septic tanks, disposal fields, open pit privies and other sources of contamination.

But suppose you already have a well that supplies plenty of water. Only trouble is that the quality is questionable—due to the possibility of surface contamination. Here are some things you can do to make that water safe.

If the well is at a lower elevation than barnyards, use a diversion ditch to drain surface water away from the well.

Seal out seepage water with a four-inch concrete wall placed inside or outside of the old loose brick, tile or rock casing. See that tree roots are not damaging the well casing.

Pour a watertight, reinforced concrete top to replace an open wood platform.

Extend the well casing at least six inches above the concrete top.

Mound clay around casing so that the well is higher than the surrounding ground.

Fill all old dry wells with puddled clay and concrete to seal out contaminated seepage water.

From the standpoint of family health, you should have the purity of your drinking water checked periodically.

The State Hygienic Laboratory, Water Division, Iowa City, Iowa, will make an analysis of your drinking water for a fee of $2. Just send a sample to the above address. The sample, however, must be sent in a container supplied by the laboratory.

Your Dempster Dealer Has the Answer to:

Which Water System Will Give You "MOST FOR YOUR MONEY"

DEMPSTER jetmaster WATER SYSTEMS

Satisfied Owners Know That the DEMPSTER Way Is the DEPENDABLE Way To Modernize Farm Life

$ — Most Efficient

$ — Most Economical

$ — Most Silent Operation

Only 1 Moving Part

Reduces noise, costly repairs, worry about steady performance!

- Capacity to 600 gals. per hour from Jetmaster self-priming shallow well
- As much as 1570 gallons per hour from deep-well Jetmaster
- Fully automatic operation
- Exclusive anti-friction seal needs no adjustment, means more power for pumping
- Silent, compact—can be put in home away from frost, weather; installs directly over the well or offset for your convenience
- Two types available: Inner pipe system for 2", 2½" and 3" wells—parallel pipe for 4" wells or larger. Wide range of sizes; ¼ - 1 H.P.

NEW—Available Now! Multi-Stage Jetmaster for plenty of pressure from extra deep wells.

FREE Folder—Write TODAY!

Dempster Mill Mfg. Co.
617 South 6th Street
Beatrice, Nebraska

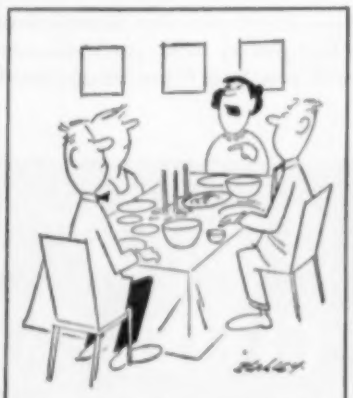
Please send me free literature with capacities of Dempster Jetmaster single-stage and multi-stage water systems.

Name.....

Address.....

City.....State.....

"FELCO Feed can't be beat," says Dale Timmons of Ocheyedan. "I've fed FELCO exclusively for 8 years and I like it for all livestock. Besides that, we get the savings earned by buying cooperatively with more than 100,000 other Iowa farmers by getting FELCO Feed from our local Farmers Cooperative in Ocheyedan." You'll like FELCO too. Try it today.



"We got the vegetables out in the country for nothing. But the entire back of our car is peppered with buckshot."

Iowa Homestead was in Carl W. Miller's farm home before he was born. He's read it all his life, still reads it and his son, Kenneth, (see below) takes the farm paper too.

"Grandpa took it"

The Iowa Homestead, Wallaces' Farmer and the combined Wallaces' Farmer and Iowa Homestead have been on some Iowa farms for 70 years or more. Three generation subscriber families are not uncommon. On this page we present two of them.

Whiskers like Grandfather wore, but Grandfather would find some of the equipment Kenneth Miller uses pretty complicated. In Adair county, Iowa.

Readers of three generations. Estell Hanson, right, says Wallaces' Farmer and Iowa Homestead is his favorite because it has down-to-earth articles and pictures. His son, Robert, at left, and grandson, Richard. Richard looks at the pictures now; he'll read soon.

For less than 1¢ per week

per cow you can insure a healthier herd and healthier profits! (Based on the national average salt requirement per cow)

Just that much more is all it costs to feed a cow Morton Trace Mineralized Salt instead of ordinary salt

A healthy cow produces more milk . . . is better able to drop a healthy calf . . . and makes more money for you.

To *insure* good health, you should be feeding your cows Morton Trace Mineralized Salt.

Morton T-M Salt provides the sodium and chlorine your livestock must have, plus adequate amounts of vital trace minerals: iodine, cobalt, copper, iron, zinc, and manganese.

Most farm land lacks one or more of these essential trace minerals. Lack of any one can cause poor health . . . unsatisfactory reproduction . . . greatly reduced milk production.

Feeding trace minerals with salt is the surest, most economical way to guarantee an adequate supply. Morton Trace Mineralized Salt is inexpensive. All animals like it, will eat it readily every day. When they do, they get the salt they crave, plus the trace minerals they need.

To assure proper mineral balance, build your mineral feeding program around Morton T-M Salt. It's essential to a sound, economical mineral program—whether or not you feed a major mineral supplement. Its cost is so slight—the protection it offers so valuable—it is the only kind you should use.

Just be sure to feed it to your animals free choice. You know they need it. They know how much.

MORTON T-M SALT *Trace Mineralized Salt*

AT YOUR FEED DEALER'S IN BAGS AND BLOCKS

Congratulations

TO THE PUBLISHERS, EDITORS, OFFICERS AND ALL ASSOCIATED WITH

WALLACES' FARMER and Iowa Homestead

CELEBRATING THEIR

100th ANNIVERSARY

OF SERVING THE GREATEST FARM STATE OF THEM ALL . . . IOWA! AND THANKS, TOO, FOR THE WONDERFUL COOPERATION WHICH YOU HAVE EXTENDED TO RADIO STATION KIOA!

KIOA IS VITALLY INTERESTED IN HELPING THE IOWA FARMER BY SUPPLYING THE RADIO PROGRAMS THE FARMER WANTS . . . AT THE TIME HE WANTS THEM! ENJOY OUR FARM PROGRAMS FEATURING BILL HITT AND LES WRIGHT.

TRY US! DIAL 940!

TOWN & FARM RADIO

KIOA
Des Moines

GENUINE YETTER PRODUCTS *at the Fair!*

See the YETTER-Schroeder Portable Elevator

It's the modern product of 55 years experience! Since 1900, Schroeder portable elevators have provided farmers with dependable low-cost elevating—and now they're made by Yetter, builder of good farm equipment since 1930.

. . . these other famous YETTER products

DISC COULTER-JOINTER — for faster, cleaner plowing
CULTIGUARDS — for high-speed, closer cultivating
WEED MOWER — for superior performance at low cost
HYDRAULIC SYSTEM — continuous running
HARROW STABILIZER TONGUE — for fast, safe harrowing
ROTARY HOE — flexible . . . maximum penetration
TRACTOR WHEEL CLEANER — keeps front wheels clear

YETTER MANUFACTURING CO., 128 Main St., Colchester, Ill.

"Good Farm Equipment Since 1930"

"Gut Edema"

In hogs

Many cases of a hog disease called "gut edema" have been reported in Iowa this summer, according to Dr. John B. Herrick, Iowa State College veterinarian. Here he gives some information on the disease.

EDEMA disease or gut edema of hogs was first recognized in Ireland and has been seen in the United States since 1947. It may be like overeating disease in sheep, but this has never been proved.

Usually the disease appears suddenly in well-doing pigs five to 16 weeks old. There's a high death rate in the sick pigs. But the disease disappears as rapidly as it appears.

Apparently, gut edema follows periods of strain such as after a pig has been vaccinated.

Most farmers report symptoms that resemble those of cholera. A weak, wobbly walk, paralysis, and convulsions are typical symptoms reported. Veterinarians find that the disease is hard to diagnose without performing post mortems.

In many cases, other diseases show up at the same time to complicate things.

From the research work done so far, it appears that gut edema is not caused by an infectious agent but may be due to a poisoning.

Removing the pigs from heavy feed and flushing out their intestinal systems seems to be the most satisfactory way to handle them.

Hog raisers should keep in mind that successfully treating gut edema may not end the trouble. There is evidence that gut edema may weaken pigs so that they are more susceptible to other diseases.

No preventive for gut edema is known at the present time.

The hog disease picture is very complicated. Even the more common hog diseases seldom appear alone. Gut edema adds to the list of hog diseases that make diagnosis difficult. Especially since it may promote or aggravate other diseases.

TAKES a lot of nitrogen to grow 1,000 bushels of corn. But to fire one salvo from the 16-inch guns of a battleship, the same amount of nitrogen is used.

"He had the same complaint about my cows being in his cornfield as last time, but he worded it differently."

From the land of

Green Spruce

The paper that this issue of Wallaces' Farmer and Iowa Homestead is printed on is sold by the Newhouse Paper Company. Just like your tractor, or combine, or corn picker is built to rigid specifications, so must paper have certain qualities before it will do the right job for the publisher.

We at Newhouse knew what was needed. We asked our supplier, the Hennepin Paper Company of Little Falls, Minnesota, to make this paper. No famous chef, or good farm cook takes more care in the recipe for a favorite dish than does the paper mill. The recipe reads like this:

8 percent pure clear water

80 percent prime Spruce including a dash of Balsam and other woods (about 60 percent of this is groundwood pulp, the other 40 percent chemical pulp)

13 percent chemicals, chiefly clay

Put the ingredients together in big mixing vats, run for 200 yards over screens and heated dryer rolls. Wind it on reels, slit, wrap, weigh and label the rolls and ship it to the publisher.

That's a large order.

Like your favorite local dealer, a paper jobber like Newhouse Paper Company has to have years of experience and knowledge to best fit the product to the user's needs. Years of experience like Newhouse has gained since its start in 1915. Years representing the foremost paper mills of Maine, New York, Ohio, Michigan, Wisconsin and Minnesota.

SERVICE, DEPENDABILITY AND SATISFACTION ALWAYS

NEWHOUSE PAPER COMPANY
DES MOINES, IOWA

Moline, Illinois Dubuque, Iowa
Minneapolis and St. Paul, Minn.

It's serious business when checker champions compete at the Iowa State Fair each year. Checker tournament will be held August 29 and 30 this year.

See the extras at State Fair

There's a big variety of interest and entertainment in contests and shows

IT'S A pretty good bet that after you return from the 1955 Iowa State Fair, you'll discover you missed something you really wanted to see.

But you can make the most of your visit to the fair by figuring out in advance what it is you want to see and then making a few notes about where and when you can see those particular features.

The grandstand show times, judging schedule and some other features are listed on page 131. And here are some of the extra attractions that year after year hold a lot of interest:

CHECKER TOURNAMENT will be held Monday and Tuesday, August 29 and 30, on the south porch of the Administration Building. Prizes total $135. No advance entries required.

HORSESHOE pitching tournament finals for the junior and official state championship divisions will start Sunday, September 4. Finals for the farmers' and open divisions will be held Monday, September 5. Premiums total $556.

IOWA ART SALON is open to all residents of the state. Exhibits may be seen on the main floor of the Educational Building. Prizes total $850 for best water color, oil, sculpture and other works of art.

OLD FIDDLERS' CONTEST will be held in assembly tent beginning Friday, September 2. Fiddlers must be 50 years of age or over and must play all music by ear or from memory. Note playing is barred.

PHOTOGRAPHIC SALON competition is open to the world. Total of $175 in prizes offered in nine classes. Second floor, Educational Building.

RODEO, afternoons, September 2, 3, 4, 5 and night of September 3. Champion cowboys from all over the west will compete for big purses in bronc busting, bulldogging, steer riding, calf roping and other events.

SHEEP SHEARING CONTEST, Sunday, August 28, in the livestock pavilion. $235 in cash prizes plus championship belt.

SHEEP DOG TRIALS. To be held in the livestock pavilion Sunday, August 28. $265 in cash prizes plus trophy and banner for high scoring dog.

TEAM PULLING CONTEST—Contest ground, north of the Horse Barn. Lightweight, Monday, August 29; middleweight, Tuesday, August 30; heavyweight, Wednesday, August 31. Pulling starts at 9 a. m. each day. $900 in prizes.

FLOWER ARRANGEMENT demonstrations—Sunday, August 28, 2:30 to 4 p. m.; Tuesday, August 30, Thursday, September 1, Saturday, September 3, 10 to 11 a. m. and 2 to 3 p. m. Demonstrations will be held in the balcony of Agriculture Building.

QUIZ DERBY—Teams consisting of three seventh or eighth grade school children will answer questions. Monday, August 29, thru Thursday, September 1, in the dance pavilion.

Tells Whether Hay Baler Will Pay

Should you own a baler yourself? Or hire baling done for you?

Here's help for that perplexing question from Orrin Berge, University of Wisconsin farm engineer. He has devised a rule of thumb for determining whether it pays to own a baler or a combine.

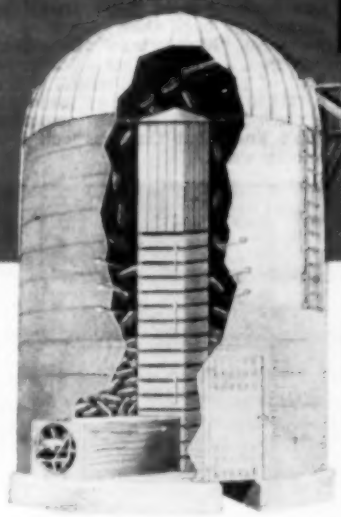
For a baler, divide the cost of the machine by 20. If the cost is $2,000, that means you'll need to bale at least 100 tons of hay to make the baler more economical than custom baling at 11 cents a bale.

For a combine, divide the cost of the machine by 20. This will give you the number of acres it must cut each year to come out ahead. That means a $1,500 combine must cut 75 acres of grain to compete with custom operators who will do the job for $5 per acre.

There's one other point to be considered, Berge points out. If you have to wait very long for the custom operator, you may lose part of your crop. In that case, crop losses you avoid would help justify owning your own machines even on a smaller acreage.

Harvest More Corn... Make More From It!

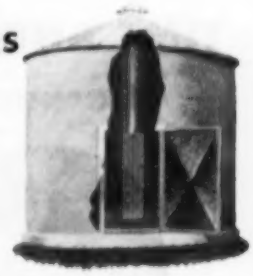
with a MARTIN HIGH ROUND CRIB



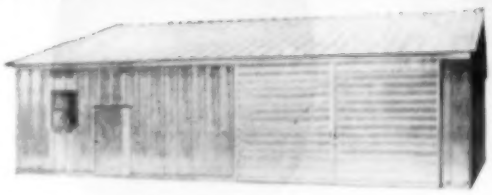
You can harvest more corn by picking early when stalks are pliable, at moisture as high as 35%, and save those many ears that are downed by weather and vermin—IF you have a Martin High Round Crib in which to dry your ear corn. Your picker will shell off far, far less, too, when you pick early. A High Round dries your ear corn safely and economically with unheated air, and stores it in a rodent-proof, weather resistant, permanent structure that gives you more first-class storage for a dollar.

MARTIN HARVEST HOARDERS

For shelled corn (or any small grain), and smaller quantities of ear corn, Martin Harvest Hoarder Cribs and Bins are your best investment.



You Can Own This All-Steel MARTIN Building for LESS



- LESS MAINTENANCE
- EASILY ADAPTED
- LONGER LIFE
- NO WASTE SPACE
- NO POSTS OR TRUSSES INSIDE
- ECONOMICAL

Your farm building dollars will go farther in a Martin Rigid Frame Building that gives you straight sidewalls and a post-free, wide-open interior that lets you place partitions or park implements where you want them. Compare costs with any other construction—you'll be amazed! With the wide selection of doors, windows, ventilators and similar accessories you can adapt a Martin to just about any need. And, so easy to erect—do it yourself in a few days, or your local Martin Man will do it for you. Dollar for dollar—it's your best farm building buy!

MARTIN

STEEL PRODUCTS CORPORATION

1523 Longview Ave., Mansfield, Ohio

Send FREE FACTS on:

☐ Rigid Frame Buildings ☐ Harvest Hoarder Bins
☐ Harvest Hoarder Cribs ☐ High Round Cribs

NAME ..... Student☐

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CITY & STATE 323

I WAS JUST FIGURING...

—by Cy Watkins

Our good friends at Wallaces' Farmer and Iowa Homestead are having a big birthday this week, and it set me to thinking how much they've done for farming here in Iowa . . . throughout the whole country for that matter.

Our family has a stack of old magazines that goes back to when my gran'dad first started saving them. I was paging through a "Homestead" last night and came across a Hog Tonic formula from way back at the turn of the century . . . thought you might get a kick out of it. Shows how far we've come in only a generation or two. Maybe it shows how far we'll go in the next generation.

(Whatever you do, don't mix up a batch of it . . . sounds like it might explode if you dropped it.)

HOG TONIC

(March 28, 1906)

"The government formula which Dr. Salmon recommended as a tonic and medicine for hogs is:

Wood charcoal	*1 lb.*
Sulphur	*1 lb.*
Sodium chloride	*2 lbs.*
Sodium bicarbonate	*2 lbs.*
Sodium hyposulphite	*2 lbs.*
Sodium sulphate	*1 lb.*
Black Antimony	*1 lb.*

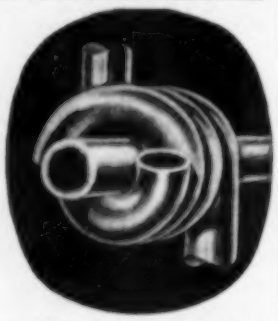
"These ingredients should be thoroly pulverized and thoroly mixed. The dose is a large tablespoon once a day for each 200 lbs. of liveweight of hogs to be treated. The medicine should be thoroly mixed with the feed."

(Any pig that could survive a dose of THAT should be a mighty healthy pig indeed.)

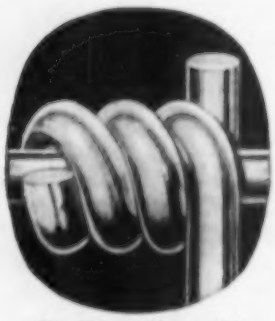
Well, hog raisin' has come a long, long way since those days . . . about the same distance the horseless carriage has come since then. Now we've got high-powered hogs that'd make those hogs back then look silly. And we've got "high octane" feeds to make 'em go . . . name 'em . . . there's a host of new trace minerals, vitamins, antibiotic and other unidentified growth factors. What's tomorrow? I don't know but fer me, well I can't hardly wait!

One hundred years ago Wallaces' Farmer and Iowa Homestead started serving Iowa farming . . . and not long after that (1868) "The Watkins Man" started calling. Not only has he been a constant supplier of needed farm products, but he's been a close and valued friend to thousands of Iowa farm families. Like Wallaces', Watkins has prospered by serving well. It's a happy occasion when a fellow "old-timer" has a birthday. **(The J. R. Watkins Co., Winona, Minn.)**

PAYS FOR ITSELF TIME AND AGAIN Because . . .

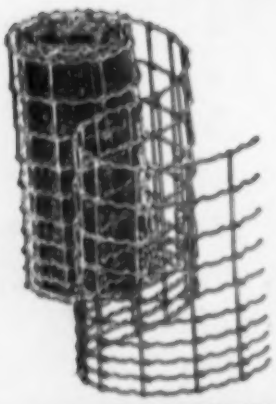


It's "Galvannealed!"



It's Triple-Wrapped!

It's Heavily Crimped!



● Mid-States "Galvannealed" Farm Fence gives you years of extra wear at no extra cost!

Instead of a mere coating of protective zinc, Mid-States fuses the zinc right into copper-bearing wire through a special heat process. It can't chip, crack or peel off—gives permanent protection! Plus—triple-wrapping and heavy crimping resist expansion and contraction—keep the wire tight throughout its life.

Next time you need farm fence—buy the finest—get Mid-States "Galvannealed."

MID-STATES STEEL & WIRE COMPANY
Crawfordsville, Indiana • Jacksonville, Florida

MID-STATES Fence

Barbed Wire · Steel Posts · Steel Trussed Gates
Automatic Baler Wire Bale Ties
and other steel products for the farm

"And Davy Crockett used to gather eggs for his mother every day."

To Make Profit On Oats

Are oats unprofitable on your farm? Maybe making them into oats silage will reduce the loss or make them profitable.

At the Iowa State College Feeders Day program, Dr. A. L. Neumann of the Illinois experiment station reported on cattle feeding tests with oats silage in that state. Here's the program that is proving successful:

1. Winter calves on oats silage and three to four pounds of corn a day.

2. Start working them up to a full feed of ear corn about the middle of March, getting them ready for self-feeding on pasture.

3. Keep them on a full feed of ear corn on pasture until about September 1.

4. Finish on shelled corn either on pasture or in dry lot.

Neumann says this program produces 1,100 pound steers for market in October. And he says making oats into silage is no more labor than combining oats and baling the straw.

When To Plow Corn Land

Should land for corn next year be plowed right away? Just before winter? Or next spring?

It depends on the soil, the condition of the field and the labor available.

Immediate plowing is recommended on level fields that are badly infested with weeds. Turn the soil before weeds seed unless land is rough and will wash badly.

Fields that have a heavy soil and not too well drained should be plowed sometime this fall. It might be too wet in the spring to get the land plowed and well pulverized.

Hill land or any land that is subject to erosion by wind or water should be plowed in the spring. Let the cover protect the soil thru the fall and winter. If weeds are a problem, mow them.

September plowing is ordinarily best when a green manure crop is growing on the land. The delay allows the growth to reach its maximum for production of plant food and organic matter.

Fall plowing always spreads the labor. But this should not influence the decision if fall plowing is not good for the land or for the corn crop next year.

Read this story of Scientific Crop Conditioning

2 minutes of your time NOW can make you a BIG PROFIT THIS FALL!

DRY HAY & GRAIN
with HABCO JET
CROP DRYERS
Indirect Heat

Safe, fast, economical. Can't burn or contaminate crops with soot or fumes because of unique heat exchanger system. Dry up to 24 tons of hay per day; up to 2,800 bushels of grain per day.

6 MODELS—A size and type for every farm.

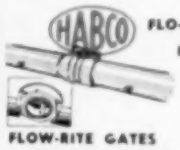
P.T.O. DRYER with BIN
Semi-Indirect Heat

For high temperature drying and low-cost operation. Can be run from P.T.O., gas engine or electric motor.

with HABCO DRYERS you can Harvest Early - Get More Grain -Sell It All at a Higher Price!

Galvannealed All-Steel
CORN CRIBS
with the new quick-fastening WEDGE CLAMP.

- 2 gauge bar mesh steel
- Superior construction
- Easiest to erect, fill, empty
- 3 popular sizes



FLO-MOR ALUMINUM IRRIGATION PIPE
6"-8"-10" Diameters Roll-Formed, Fusion-Welded.

FLOW-RITE GATES
EASIEST TO CONTROL-POSITIVE FLOW.

See your dealer or send coupon

Habco Mfg. Co.
Dept. L-1,
Columbus, Nebraska

Please send complete information on

☐ Crop dryers ☐ Drying Bins ☐ Corn Cribs ☐ Irrigation pipe and equipment

NAME _____
ADDRESS _____
CITY _____
STATE _____

Workday pointers

SHADE AREA for 100 hogs should be at least 20 by 50 feet. Figure 10 to 12 square feet per hog.

▾ ▾ ▾

OATS AT 50 CENTS are profitable substitutes for at least one-fourth of the corn in a growing pig's ration.

▾ ▾ ▾

STRAW AND STUBBLE left on new seedings will injure the stand and next year's grass yield, according to recent Iowa State College experiments.

▾ ▾ ▾

ENOUGH DIRT goes down the ordinary gully to fill it in one year. Any kind of dam that slows the water movement will cause deposit of dirt.

▾ ▾ ▾

GRIND OATS coarse for fattening cattle, grind fine for hogs, and feed oats whole to lambs, says G. R. Carlisle of the Illinois experiment station.

▾ ▾ ▾

SALT FOR CATTLE is easy to neglect in summer. But you lose gains or milk production when salt is not before cattle at all times.

▾ ▾ ▾

BLOOD SPOTS in eggs may be caused by frightening birds so they fly into nests, roosts or feeders. Injury causes a hemorrhage and blood is deposited in the egg, says T. E. Hartung, Colorado College of Agriculture. Be gentle with your laying hens, says the specialist.

▾ ▾ ▾

SPAYING HEIFERS doesn't pay, according to Colorado cattle specialists. Spaying leaves a scar on the loin. And some feed tests show unspayed heifers make gains more efficiently.

▾ ▾ ▾

WANT TO MAKE OATS the entire ration for pigs? Then they should be ground and soaked 12 hours, says E. L. Quaife of Iowa State College. Feed as a thick mash. Pigs will not eat enough whole oats to make good gains.

▾ ▾ ▾

TWO RISKS are taken when you plow too close to gullies or ditch banks: Dirt may cave in and make the ditch bigger. Or the tractor may slip into the ditch with danger for the operator.

▾ ▾ ▾

TWELVE PERCENT protein ration can be made by mixing 500 pounds ground oats, 1,500 pounds ground corn and 200 pounds protein supplement. Such a mixture is suitable for 150 pound pigs, says E. L. Quaife of Iowa State College.

▾ ▾ ▾

SOME CONSERVATIONISTS say big weeds in back fencerows do more good than harm. They hold snow and provide a refuge for wild life. But not many think big weeds in fencerows improve the appearance of a farm.

DISCOLORED OATS are not the result of diseases, say Iowa State College crops specialists. No loss in quality is believed to exist where only hulls are dark colored.

▾ ▾ ▾

IF YOU FEED corn to cattle in self-feeders, never let the feeder get empty. Hungry cattle may eat enough to throw them off feed.

▾ ▾ ▾

BUY SEED OATS from farmers or from long established seed dealers. Many farmers were badly disappointed with oats growing contracts offered in 1955 by fast-talking salesmen.

▾ ▾ ▾

PLAN YOUR WORK for early corn picking season this year. Corn is ahead of schedule.

▾ ▾ ▾

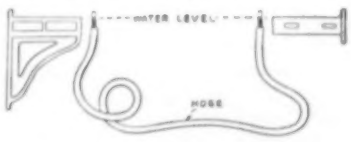
GOOD SEED OATS will be plentiful this year. There's no point in contracting for seed early.

▾ ▾ ▾

MILK CANS with rusty spots or broken seams will be found to have milk with higher bacteria count than milk in cans that are smooth and shiny inside.

▾ ▾ ▾

LEVELING METHOD for foundations or other widely separated points is shown here. All you need is a hose with glass ends attached. Fill the hose with



water of even temperature and be sure no air bubbles are left in the hose. Don't attempt to fill the hose by immersing it in a tub of water. Hold it in the U-position and pour water in one end. Accurate results can be expected from this leveling method if these precautions are observed.

▾ ▾ ▾

FOR HIGH QUALITY milk, sanitize cans immediately before use, with heat, chlorine or other chemicals.

▾ ▾ ▾

POTASH applications increased the life of alfalfa stands in Ohio experiments. Fields were top-dressed with 300 to 400 pounds of 0-20-20. Applications can be made spring or fall.

▾ ▾ ▾

DRY MILK UTENSILS as rapidly as possible after use. Bacteria increase rapidly under moist conditions.

▾ ▾ ▾

BUSHEL OF OATS is worth about 57 percent as much as a bushel of corn for fattening hogs, one-half as much as corn for fattening cattle, and 80 percent as much as corn for fattening lambs.

▾ ▾ ▾

SLOW-GROWING PULLETS should be culled as soon as they show up, say Purdue University specialists. You save feed and give other pullets more room.

It's in the Bag

NEWER AND BETTER HYBRIDS for You

Vinton

Hybrids

AMERICA'S FINEST SEED CORN

Vinton's Speed Growth Hybrids actually germinate and grow faster. They are your insurance of a sound mature corn crop.

We invite you to try Vinton's speed growth hybrids for '56.

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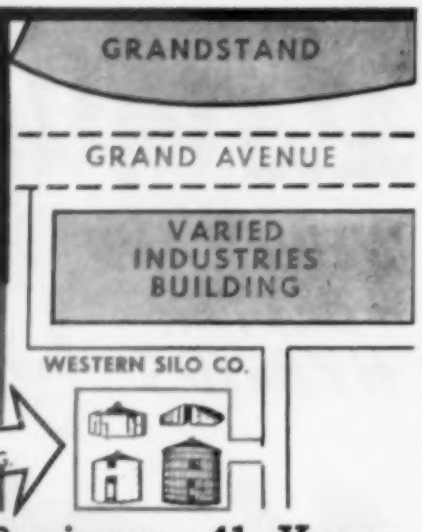
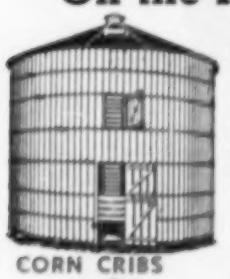
CRIBS • BINS
MACHINE SHEDS
SILOS &
FARM BUILDINGS
SEE THEM AT THE
IOWA FAIR
ONE BLOCK SOUTH OF VARIED INDUSTRIES BLDG.



46 Years In Business—41 Years On the Iowa State Fairgrounds


CORN CRIBS

For more than a third of a century **CHAMPION SILOS** and **FARM BUILDINGS** have set the pace for superior quality at lower cost on thousands of Iowa and Midwestern farms.

A complete line, expertly designed and sturdily built of high grade materials. Full size Champion buildings open for your inspection and comparison at our "old stand" on the fairgrounds (see map above). Showing Champion crib, bin, hog houses; also models, pictures and full information.

Visit Us at the Fair—or Write or Call Our Factory

We offer lowest direct-to-farm prices and make immediate delivery. Farmers, don't invest in any farm building without checking the Champion Line, too.

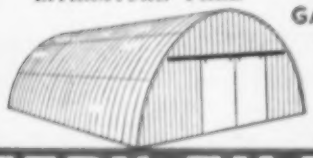
DEALERS — attractive territorial privileges still available.

LITERATURE FREE

HOG HOUSES

GARAGES—SHOPS

GRAIN BINS



Famous "Timberib" Machine Sheds

Iowa distributors for Timberib Buildings, the roomiest, sturdiest utility buildings known. See models at our exhibit.

WESTERN SILO CO.
DEPT. W8 WEST DES MOINES, IOWA

"40 acres of oats
planted, disced and harrowed in one operation"

Total Time: 9 hours • Total Costs: 6¢ an acre
says Sheppard SD-4 owner Joe Bernhard of Elwood, Illinois

PLANTING CORN Mr. Bernhard used his Sheppard Diesel SD-4 to spray for thistle, disc, harrow and plant . . . all at one time. His wide axle SD-4 pulled the 14½' disc, 15' harrow and 4 row planter in 6th gear, left only 16 end rows for finishing.

The Sheppard Diesel SD-4's versatile 10 speed transmission *plus its extreme maneuverability* means less hours and lower costs on every farm job. To see what big power *combined with year 'round usefulness* can mean to you in terms of more income have a Sheppard Diesel SD-4 demonstrated on your farm.

Sheppard
DIESEL SD-4
replaces 6 ton crawlers

10 SPEED TRANSMISSION
22 TO 1 COMPRESSION RATIO
SIMPLIFIED FUEL INJECTION

DEALERS: The Sheppard SD-4 can perk up your sales. Coupon will bring details.

Mail Coupon for 12 page booklet and name of your Sheppard Dealer

SHEPPARD DIESELS • HANOVER, PA.
Send me literature on Sheppard Diesel SD-4 ☐
I would like a demonstration ☐
Name .....
P. O. .....
R. F. D. ..... State .....
Send complete dealer information ☐

Scenes like this are becoming more common in Iowa as co-operative elevators add to their present storage and grain handling capacity. Shown is the Burt Cooperative Elevator Company's storage bins. One at left was completed this year, the one at right in 1905.

Co-op elevator celebrates

56 years growth

IT TOOK two tries to get the Burt Farmers Exchange Company started back in 1899. That year, a blizzard hit Kossuth county on March 17, the day scheduled for the organization meeting.

So the meeting was held the next day. With better weather, farmers around Burt turned out. First plans for the Burt co-operative elevator were drawn. Official organization came on June 3, 1899.

This band of Kossuth county farmers was following the example of a farm group at Rockwell, Iowa, who had formed the first farmers' cooperative elevator in Iowa 10 years earlier in 1889.

The Burt cooperative was reorganized in 1919, again in 1939, and now has a perpetual charter.

Original officers were: president, A. H. Wessels; vice-president, E. H. Staley; secretary, W. A. Chipman; directors, John Kerr, J. A. Jamison, and A. L. Moore.

Changes have been many since. First elevator was purchased locally for $1,800. Six years later, the co-op built a $3,400 elevator.

Last August 12, that same farmers' cooperative, now called the Burt Cooperative Elevator Company, celebrated the completion of its new 250,000 bushel concrete elevator.

In 1899, the Burt co-op sold bran, middlings, and salt for livestock. Today, it handles more than 80 different types of livestock feeds.

In 1899, the co-op handled coal, ground corn, flour, graham flour, buckwheat flour, oil meal and two items labeled "horse feed" and "cow feed."

Now, the co-op offers a complete seed cleaning and treating service, sack and bulk fertilizer, a complete feed grinding and mixing service, and two brands of commercial feeds.

A December, 1899, report shows 42 original members of the Burt cooperative. Now there are 430 members with property and operating capital of $354,442.84.

What about prices paid to farmers back when this co-op had its beginning? The local paper quoted these prices in a 1901 issue:

Corn	23-28c
Oats	10-21c
Wheat	55-57c
Barley	30c
Hay	$7.50-$8 per ton
Cattle	$3.50-$4.50
Hogs	$3.50-$4.80
Butter	18c per pound
Eggs	15c per dozen

Members of the present board of the Burt Cooperative Elevator Company are: president, F. L. Ryerson; vice-president, Paul Weber; secretary-treasurer, Russell Patterson; directors, Walter Campney, T. E. Lagerstrom, Dean Andrews, and A. J. Dittmer.

Manager of the elevator is J. L. Miller.

Shown here is the 250,000 bushel concrete elevator now being completed at Burt, Iowa.

Loop connection in the end of the wire should be in a clock-wise direction under the screw when tightened. It'll stay in place instead of moving when pressure is applied.

How to do it

—Make good electrical connections

Wire insulation should be stripped like sharpening a pencil. Keep a taper on the insulation; don't chop it off square. On new wire don't scrape off the tinning. This will make it easier to do a good solder job.

Splice in electric wires calls for soldering. A good splice includes a firm mechanical joint and a good electrical joint. Hold the iron under the wrap joint and apply solder from top. This way the solder will penetrate.

Ceramic connectors make good splices where there is no strain or weight on the joint. Twist the two ends of the wire together. This will form threads like those on a bolt. The ceramic cap is then screwed over these twisted ends, and the splice is made.

AMMO-PHOS®

FERTILIZER

is water soluble...

AP*

Visit us at Booth No. 27-29 Iowa State Fair

makes the difference in crop response

Experiments prove that crops take up more phosphate from water soluble Ammo-Phos fertilizer than from common mixed fertilizers. It's the AP* that makes the difference.

MAKE THIS SIMPLE TEST

Ammo-Phos *

To determine if the fertilizer you are now using is water soluble make this simple test. Place one-half teaspoonful in a glass of water. Then place a similar quantity of Ammo-Phos in another glass of water. Stir both mixtures for several minutes. Notice how water soluble Ammo-Phos goes into solution while the mixed fertilizer collects at the bottom of the glass. Even if left for several days, the ordinary mixed fertilizer will not dissolve completely.

This water solubility of Ammo-Phos means that your growing plants have all of the plant food available. You get what you pay for and your crop gets what you put in the ground. See your Mathieson dealer today and let him show you how AP* makes the difference in crop response.

Ordinary Fertilizer

MATHIESON

OLIN MATHIESON CHEMICAL CORPORATION

LITTLE ROCK, ARKANSAS

2965

NEW! Walsh Air-Flo "LONG-TYPE" ALL-STEEL CORN CRIB

ANOTHER WALSH FIRST! 20% FASTER DRYING ASSURED

- Increase capacity anytime by simply adding sections
- Double XX all-steel construction — heavy 2" x 4" wire mesh
- Heavy arched type, 24-gauge galvanized roof
- All corn less than 58 inches from outside air

GUARANTEED CAPACITY

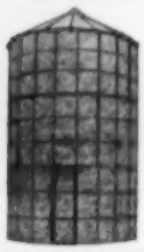
Walsh arch roof design — with convenient hinged filler holes every 9 feet, provides bonus storage space. Crib will positively shell out its rated bushel capacity. Available in any desired capacity from 600 bushels to 8000 bushels or over.

CRIB HEADQUARTERS

Walsh INTERLOCKING CORN CRIB

No Bolts! No other like it! Interlocking panel construction eliminates ALL bolts. No holes to line up. ONE MAN can erect in less than one hour. One-third stronger than others. 5-gauge 2" x 4" welded fabric. 700, 1000 and 1250 Bu. capacities.

Walsh STANDARD CORN CRIB



Extra rugged — really built to last. Framework — 1½" and 1¼" roll steel angle iron. Heavy galvanized roof. No holes to drill. Sturdy 6-foot door. 700 and 1000 bushel capacities.

Mail coupon for FREE Literature

Walsh MFG. COMPANY Charles City, Iowa

Rush me literature on the cribs I have checked below —

☐ NEW AIR-FLO "LONG-TYPE" CRIB ☐ NEW INTERLOCKING "NO BOLTS" CRIB ☐ WALSH STANDARD CORN CRIB

NAME _____

ADDRESS _____

NEW 20¼" MAYRATH GALVANIZED Elevators

16 Ft. $138 24 Ft. $178 24 Ft. $235
32 Ft. $290 40 Ft. $340
48 Ft. $389.50

Prices with carriage & winch at DODGE CITY, KANS. or MONMOUTH, ILL.

World's Largest Selling NEW GALVANIZED Portable Augers

21 Ft. TR. . . . $118
27 Ft. $159
34 Ft. $235
41 Ft. $275
with Carriages

Pay for Themselves the First Day! 30 Bu. per Minute!

ALL PURPOSE AUGERS 6-IN. TUBE

11 Ft. . . . . $29.00 27 Ft. $59.00
16 Ft. . . . . $39.00 34 Ft. $69.00
21 Ft. . . . . $49.00 41 Ft. $79.00

NEW GALVANIZED JUNIOR AUGERS

Complete with belt pulleys, spout, mounting brackets and motor mount.

11 ft., $16.50; 16 ft., $19.50; 21 ft., $22.50

All prices F.O.B. Factory. These items on display one block west Varied Ind. Bldg. IOWA STATE FAIR

TRANSPORTS WHILE MIXING... DUMPS HYDRAULICALLY

FITS FORD, FERGUSON, ALLIS-CHALMERS WD, INC SUPER C, CASE VAC, AND OTHER 1- OR 2-PLOW TRACTORS

Universal Transmix® mixer transports and dumps cement, stock feed, silage, water and dirt. Mixes one bag of cement 5 to 1. Can be attached or removed in 15 minutes. Barrel revolves on rubber wheels—silent—no gears or chains to wear out. PTO driven.

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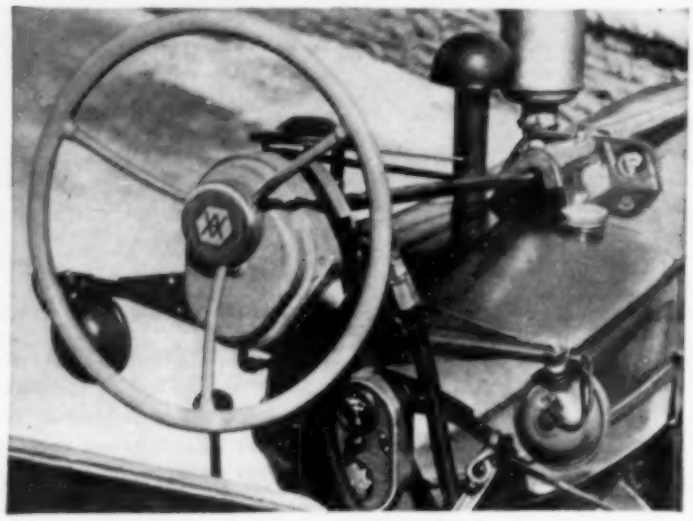
RISSE & MILLER, Inc.

Eldora, Iowa Phone 149

What's New

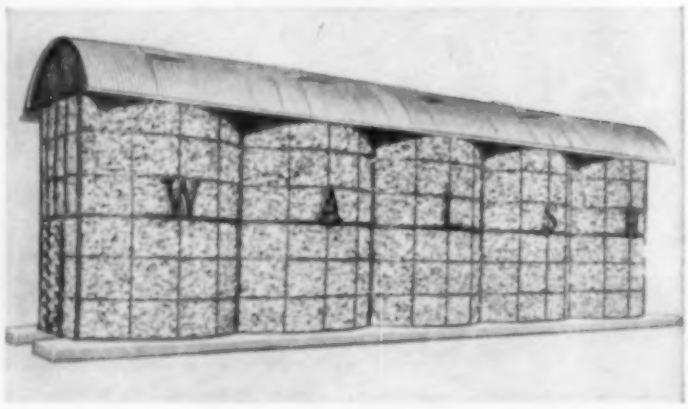
For further information about any of the products shown here, write to Wallaces' Farmer and Iowa Homestead, Des Moines, Iowa. (More "What's New" articles for farm and home will be found on page 138 of this issue.)



Hydraulic power steering device is made for tractors and other off-the-road vehicles. Said to be the only power steering unit that can be installed without structural changes in existing vehicles. Announced by Westinghouse Air Brake Company under an agreement with Dunbar Kapple, Inc.

Torn or ripped household articles can be mended with Kling-Kote Liquid Cloth. Good for mending clothing, rugs, carpets, seat covers, etc. Said to be easy to apply and dries in 10 minutes. Introduced by Downs and Co.

Mess is taken out of painting with this plastic paint can collar. Made to fit any standard quart-size paint can. Just remove lid and press collar down firmly on the can. Then you can wipe paint from brush without paint running down outside of can. You save paint as well as the mess that often goes with painting. Doesn't interfere with stirring. Made by Crandall Company.



Long-type steel corn crib comes in nine-foot sections. Buy as many sections as you need. Other features include door in roof for filling each section. New steel crib is made by Walsh Manufacturing Co.

See How You Can
Double the Value of Your Feed!

See the Top Performing
WETMORE KNIFE-TYPE HAMMER MILLS

IOWA STATE FAIR
Des Moines, Aug. 27-Sept. 5

Chop, grind, elevate all kinds of feeds with one Wetmore Hammermill. Fits your operations for years to come. Sturdy construction, precision workmanship,' a leader for 23 years. Made in 3 sizes.

WETMORE P.T.O. DRIVE
SAVES TIME • FITS ANY TRACTOR

See Too,
WETMORE "SPEED-MILL"
The Oil Bath P.T.O. Burr Mill

Swivel Elevator Lowers Freely To Go Into Most Barns or Sheds.

Longer auger can be used—up to 12' on P.T.O. Model—20' on stationary. Hopper swivels for easy loading.

Grinds 200 lbs. Ear or 400 lbs. Shelled Corn per Hour.

Moves Easily Anywhere
If you miss them at the Fair — See your Wetmore Dealer, today!

WETMORE PULVERIZER & MCHY. CO.
TONKAWA, OKLAHOMA

MOVE SOIL for as little as **4 1/2 ¢** CU. YD.

THE SOIL MOVER

SAVE! — Level your own fields, build terraces, dams, fill gullies, maintain ditches. **HELP CONSERVE MOISTURE!** Improved design—front pick-up, rear dump. Leveling rear gate spreads dirt as desired. 7 models—1 to 3 ½ cu. yds., sizes for all tractors.

FREE FOLDER, full details, money-saving prices, name of nearest dealer. Rush card today!

THE SOIL MOVER, CO., Dept. W-8, Columbus, Neb.
World's Largest Mfgr. of Agr. Soil-Moving Equipment

FREE! One pound sample of I. S. C. Pre-Starter 75 (the original product as formulated by Iowa State College). And detailed information on 3 to 5 week weaning as compiled from reports gathered from hundreds of swine producers who have tried it. Write to

YODER FEED MILLS, INC.
KALONA IOWA

YODER FEEDS

Gene Autry, cowboy star of radio, TV and movies, will headline the all-star National Rodeo on the afternoons of Sept. 2, 3, 4, and 5 and the night of Sept. 3. Appearing with Autry will be the famous Cass County Boys and Gail Davis, TV's Annie Oakley.

Plan your stay at the fair

HOW DOES a family go about seeing everything and doing everything it would like at an event the size of the Iowa State Fair?

An hour or two spent at home planning your stay on the grounds is a good idea. That's the advice from Lloyd Cunningham, secretary of the Iowa State Fair Board.

"We have plenty of attractions for everyone," Cunningham says, "so just take it easy, decide what it is you want to see, and go see it."

What are some of the major attractions you'll want to see? Here are a few: livestock, poultry, farm machinery, gadget show, corn, crops, and horticulture exhibits, boys and girls 4-H club exhibits and demonstrations, culinary, sewing, team pulling contest, horseshoe pitching and old fiddlers.

And of course, you will want to see the midway and the grandstand performances.

Oh, yes. To make your visit to the fair much more pleasant, wear an old comfortable pair of shoes. And take time for a mid-morning and mid-afternoon rest—they'll help you enjoy the fair.

Something else you can do to save a lot of valuable time at the Fair is to mail in for your grandstand tickets. Tickets can be ordered by writing: Iowa State Fair, Des Moines, Iowa.

Be sure to mention the date and whether you want afternoon or evening tickets. Cash or money order must be sent with ticket order. Grandstand admissions are $1, $1.50 and $2.00.

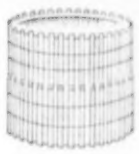
It'll cost you 50 cents to bring your passenger car onto the Fair grounds. Cars are free after six p. m.

SEVERAL central Iowa television stations are attempting to make arrangements for the live telecast of the selection of the 1955 Iowa State Fair grand champion baby beef.

CREPED to STRETCH!

RFD*
Brownskin FARM PAPER

**Reinforced For Durability*



Rugged, reinforced, RFD Farm Paper is creped to stretch. This feature means longer life, longer protection under stress because RFD will expand rather than puncture. It's weatherproof. It's best for . . . **lining temporary silos**, grain trucks, sheds, barns; for covering hay and equipment. Angier Corporation, Framingham, Mass.

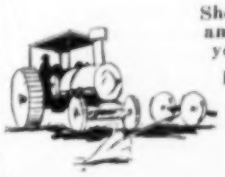
Ask your Building Supply Dealer for RFD

He can get RFD for you from the following distributors

Builders Wholesale Supply Co., 204 Iowa St., Sioux City, Iowa
Dealers Warehouse Co., 501 West Third St., W., Newton, Iowa
Lumbermen's Supply Co., 617 E. 7th St., Sioux Falls, So. Dakota
Consolidated Supply Co., 1002 N. 42nd St., Omaha, Nebraska
Adams Builders, P. O. Box 506, Quincy, Illinois

Congratulations

WALLACES' FARMER
AND IOWA HOMESTEAD
for 100 years of service to agriculture



Sheffield Brick and Tile Company is also numbered among Iowa Pioneers, with a record of nearly 50 years of service to farmers.

In fact, Sheffield hard-burned clay drainage tile laid in the ground at the turn of the century is still perfect today!

When planning your farmland drainage system, insist on the tile that's best by test—Sheffield.

SHEFFIELD BRICK & TILE CO.
SHEFFIELD, IOWA

ARE YOU READY FOR SECOND BROOD SPRAYING?
HAGIE HI-CLEARANCE SPRAYER

DO IT RIGHT! Why fool around with half way measures when the HAGIE SELF PROPELLED SPRAYER AND DUSTER will handle your "control" problems from start to finish. WRITE FOR DETAILS.

HAGIE MANUFACTURING COMPANY Clarion, Ia.

performance makes the champion!

IN JERSEYS, it's Lex Deborah of Sibley Farms whose record reads 8—1, 365, 3X, 20354, 1089; the only Eastern bred Jersey to make 1000 lbs. fat on 3 consecutive lactations. John Sibley, owner of Sibley Farms, Spencer, Mass., makes sure of Grade A quality from his champion by using Rapid-Flo Fibre-Bonded filter disks which he enthusiastically praises.

in filter disks, it's

RAPID-FLO®

Fibre-Bonded

used by more dairy farmers than any other brand

Even though your herd may not include a champion, the milk or cream you produce is just as vital to your income and should have the protection of champion filter disk performance.

Reliability and safe filtration are engineered into Rapid-Flo Fibre-Bonded Filter Disks, and are guaranteed by Johnson & Johnson. Get genuine Rapid-Flo Fibre-Bonded Filter Disks in the factory sealed Blue Box.

IMPROVE MILK QUALITY... CUT COSTS WITH THE RAPID-FLO CHECK-UP FOR MASTITIS AND SEDIMENT

A simple daily procedure, endorsed by sanitarians and authorities, that can prevent loss of milk and cows.

1. After filtering each can of milk (10 gallons or less) the used filter disk is carefully removed from the strainer and placed on a cardboard to dry.

2. Examination of the used filter will indicate precautionary steps necessary to secure clean milk.

Filter Products Division
Johnson & Johnson
4949 West 65th Street Chicago 38, Illinois

NEW IMPROVED BUZZ SAW ACTION!

POINT BY POINT SUPERIORITY . . .

I.E.L.'s done it again! Years ahead engineering skill has made possible the I.E.L. Little-Buz Model HM with 5 full horsepower. Modified Tillotson Diaphragm carburetion plus an I.E.L. engineered fuel pump ends pressurized gas tank troubles . . . assures instant throttle response in any position, any time, even after long engine idling. All controls are at operator's fingertips and the new heavy-duty bar and chain are standard equipment.

I·E·L Power CHAIN SAWS

Jameson's Sales & Service
LOGGING AND SAWMILL SUPPLIES
DIAL 2-8261 DURANGO, IOWA
DEALER INQUIRIES INVITED

IT'S EASY TO PUT UP SILAGE AND HAY!

with McKEE Suction Forage Blower

Takes the dirt and drudgery out of hay-making. You can put up more hay in less time with less machinery investment. 10" pipes will not plug.
Belt Drive, only $612.85 PTO Drive, only $796.00
(Price less discharge pipe. F.O.B. Crawfordsville)
See your local dealer or write today for FREE literature!

HENSS DISTRIBUTING COMPANY
CRAWFORDSVILLE, IOWA

1 Comb the hair as it is usually worn before starting to cut hair. All during the haircut, you should repeat this frequently. One thing to remember—to get a smooth haircut, move the clipper slowly giving the hair time to feed into the cutting blades.

How to cut hair

2 Instructions come with the clippers—be sure and follow them. Each time you use the clipper, be certain that cutting blades are well oiled and clean. When blades are dull, send them to your dealer for sharpening.

3 Hold clipper firmly against the skin. Clip upward until almost on a line even with the bottom of the ears. To get an even taper, gradually turn the clipper outward, resting the heel of the clipper on the neck.

4 To smooth the hairline, use the clipper and comb. Comb the hair upward, cutting the hair that sticks up thru the comb as you raise it. Smooth the hair down, and repeat until all clipper marks are removed and the hair is even.

5 To trim the top, comb the hair down over the eyes. Then grasp the hair between the fingers of the left hand, and cut the hair even with the fingers. Work toward the back of the head. Comb the hair down after each cut. Trim sideburns and around the ears with the shears to finish.

Fertilizer and seeding go on together here. Seed is dropped in rows above bands of fertilizer. Shown is Robert Hudgell on Hugh Hudgell farm in Jefferson county, Iowa.

Get more pasture with trefoil

Cattle don't gain at an empty feed bunk. Or on pastures that stop producing forage

YOU CAN BET that old bluegrass pasture isn't doing its job. Trefoil is just the thing to pep it up.

Grazing tests by Iowa State College produced an average of 93 pounds of beef per acre on unimproved pasture.

For similar pasture renovated with trefoil, beef production averaged 248 pounds per acre.

Let's turn that into dollars and cents to see how renovation can pay.

You can expect renovation costs to run from $20 to $40 per acre. With trefoil, the renovation job should last at least 10 years. So, the original cost breaks down to about four dollars a year.

Add about three dollars a year for maintenance.

Total cost in this case figures about seven dollars a year. Now, let's balance that against the beef products.

Renovation gave an extra 155 pounds of beef per acre each year. At 20 cents a pound, that figures $31. That leaves $24 above costs to cover interest, risk and profit.

Rex Brady keeps both beef and dairy cows on a rented farm in Jones county, Iowa.

"The first field I renovated wouldn't carry more than a team of horses," says Brady. "But after renovation, I kept 15 head of cattle on it all summer."

Brady seeded trefoil and a few oats to renovate a pasture on his present farm. Oats were pastured off. Now, the renovated area shows dark green with lush growth. Unimproved areas nearby are brown with dormant bluegrass.

Earl Stuedemann of Clinton county, Iowa, had to reduce his purebred Angus herd when dry weather hit bluegrass pastures.

So he started renovating with trefoil. Renovated areas made top notch pasture. Cows liked it better, too.

This spring, he seeded another 10 acres to trefoil. Soil was tested. Fertilizer and lime were added as needed. Then the trefoil seed was seeded alone.

"I find that trefoil starts faster with less competition," he says. When trefoil is seeded alone, you may have to clip to keep weeds down.

This is the time to start planning if you want to renovate with trefoil.

- First step is a soil test. Seeding will start faster and last longer if plenty of balanced plant food is available.
- Apply lime and fertilizer as needed. Most areas will need lime and phosphate. Some will need potash, too.
- Plow or tear up sod. Fall is a good time for this. It weakens the grass sod more. And it works better in the spring.
- Prepare a good seedbed. It needs to be good enough to allow accurate and shallow planting. One-half inch cover for the seed is maximum.
- Use adapted seed. Empire strains are best for pasture. Others may soon kill out like most legumes. Four to six pounds of seed is recommended rate.
- Don't seed other legumes and grasses with trefoil. They give too much competition at the start.
- Inoculate the seed. Be sure to use the bacterial culture for birdsfoot trefoil. Others won't give good results. Since seed is small and smooth, inoculation requires special care.

You may want to include about two tablespoons of corn syrup in each quart of water used to wet the seed. Use more inoculant—perhaps twice—than for other legumes.

- If oats are seeded with the trefoil, get them off early. Grazing is best. Start when oats are eight to 10 inches high.
- Maintenance is important once you get the renovation job done. Additional fertilizer may be needed every two or three years.

640 to 1970 bushel capacity

Plan Now to store your corn

in the New RED-TOP CORN CRIBS

MASTER-CRAFTED BY COLUMBIAN SINCE 1893

Don't risk losing your profits this year on that good corn crop! Every indication points to a big harvest. Use this newer, safer on-the-farm storage to make the most from your crop.

The new Columbian Red Top Corn Cribs are now at your farm supply dealers. They're the finest corn cribs ever made—with the identical self-supporting roof of the world famous Columbian Red Top Grain Bin. The sides are strong No. 5 galvanized wire, with 2" x 6" wire mesh, solidly anchored to the heavy steel angle frame, hot dipped galvanized *after fabrication*. Each 8' section has two horizontal bars for extra strength and rigidity. The slotted door, 36" x 48", is galvanized steel, with 1" x 6" painted oak removable boards.

Tunnels of No. 3 gauge and ventilators of No. 5 gauge wire mesh are also available at your dealer's.

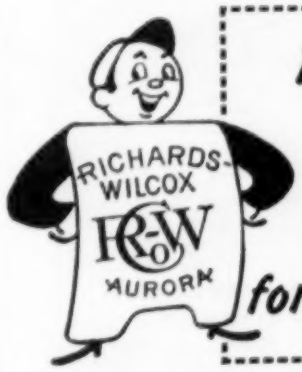
See it on display at your State Fair.

Columbian RED-TOP GRAIN BINS
Time Tested on over 100,000 Farms!
America's best and most popular Grain Bin with strength and lasting qualities that have never been equalled. Every part galvanized. In 500, 1,000 and 1,350 bu. capacities . . . and made to take the full load!

If your dealer does not yet have these Cribs and Bins write:

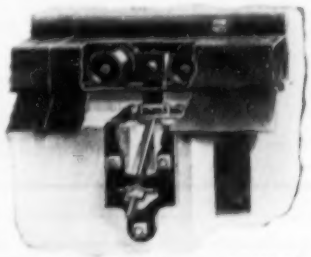
COLUMBIAN Steel Tank Company
P. O. Box I-4048, Kansas City, Missouri
TANKS FOR THE WORLD T. M. Reg.

STEEL, Master-Crafted by Columbian...First for Lasting Strength



Be sure to use R-W
HANGERS and TRACK
for any door that slides!

Sliding doors of all sizes work more smoothly with Richards-Wilcox sliding door hardware. It's easy to install yourself, and it's good for long years of trouble-free service. Hangers available with roller, ball or Oilite self-lubricating bearings. Wide range of sizes and capacities.



No. 36 Storm Proof Track with No. 423-36 Hanger. For doors weighing up to 300 lbs.

Sold by hardware, building supply and lumber dealers everywhere.

75 YEARS of QUALITY and SERVICE by RICHARDS WILCOX AURORA, ILLINOIS

SLIDING DOOR HANGERS & TRACK • FIRE DOORS & FIXTURES • GARAGE DOORS & EQUIPMENT • INDUSTRIAL CONVEYORS & CRANES • SCHOOL WARDROBES & PARTITIONS •

Richards-Wilcox Mfg. Co.
"A HANGER FOR ANY DOOR THAT SLIDES"
AURORA, ILLINOIS, U. S. A.

MUTUAL INSURANCE IN IOWA . . .

HELPING IOWA FARMERS for 75 Years

Yes . . the 143 County Mutual Insurance Associations and the 25 state-wide Mutual Insurance Companies have been helping Iowa farmers for many years! These Associations and Companies in Iowa write Automotive and Casualty, Town and City Fire (advance premium mutuals), Farm Fire, Farm Crop Hail, and Farm Windstorm. Mutual Insurance . . . written and serviced by your friends and neighbors . . . enables Iowa farmers to settle claims quickly and fairly. As in the past, Iowa farmers will continue to place their faith in Mutual Insurance!

IOWA ASSOCIATION OF MUTUAL INSURANCE ASSOCIATIONS

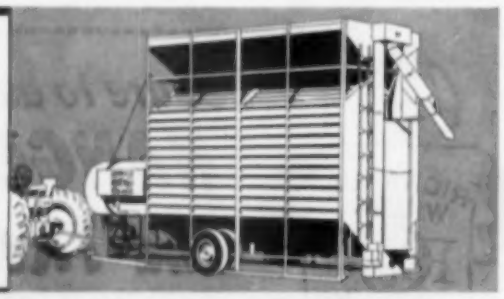
HUBBELL BUILDING DES MOINES, IOWA

1880 1955

NEW ALDRICH

crop drier has America's biggest air chamber to assure you fast uniform grain and corn drying

Fast drying with 30 sq. ft. air chamber and uniform 14 in. drying column.



UNIFORM AIR DISTRIBUTION AND PROPER HEAT key to fast drying!

Big air chamber and thin drying column assures uniform air and heat distribution for fast drying. High pressure 42 in. fan forces high volume of air so that large heat output of burner can be used without excessive drying temperatures. Produces 360 bu. of dry shelled corn from 23% to 15% in as little as 90 min. with tractor P.T.O. or electric motor. Extra 120 bu. storage for wet grain overhead or 480 bu. total. Grain slide in overhead bin prevents mixing of wet and dried grain. Completely automatic control system is safest money can buy . . . standard equipment. LP Gas or Natural Gas fired. Complete grain handling system available.

FREE literature and descriptive catalog gladly sent on request.

DEALER INQUIRIES INVITED

THE ALDRICH COMPANY WYOMING, ILL.

AUTOMATIC FORAGE FEEDING

See State Fair Exhibit; learn how to feed hard any size, simplest and easiest way. Powered hook rotates around silo. Team with unconditional, moderately priced FORAGEMASTER unloader for effortless feeding.

For information write to ROWELL, INC. 752 Vandalia St., Dept. "WF" ST. PAUL, MINN.

QUIPS AND QUOTES

WHEN YOU stop to think, don't forget to start again.—Lake Mills Graphic.

WHEN BENJAMIN FRANKLIN said, "One today is worth two tomorrows," I wonder if he was thinking of trends in taxes or women's dress styles.—Decorah Journal.

AFTER EATING THE BULL, the lion felt so good he roared and roared . . . A hunter heard him and shot the lion . . . MORAL: When you are full of bull, keep your mouth shut.—La Porte City Progress-Review.

A BORE KEEPS you from being lonely and makes you wish you were.—Logan Herald-Observer.

RAVING BEAUTY—The girl who took second place in the beauty contest. — Changing Times.

A WEDDING is a ceremony at which a man loses complete control of himself.—Walnut Bureau.

DON'T FOOL yourself, kiddo, girls who are easiest on the eyes are often hardest on the nerves.—Manning Monitor.

IT TAKES as much energy to wish as it does to plan.—Schaller Herald.

A STATEMENT in the daily press states automobile sales have increased due to the many fancy colors. Colors of the bodies doesn't make much difference for it is strictly the color of one's money.—Danbury Review.

MOST OF THE stumbling blocks people complain about are under their hats.—Lake View Resort.

TO BE A FARMER today, you have to be a combination of lawyer, machinist, architect, surveyor, banker, and magician.—Kossuth County Advance.

KEEP YOUR FEARS to yourself, but share your courage with others.—Clarence Sun.

YOU SHOULD NEVER argue with a doctor. The post-mortem usually proves he was right.—Cherokee Courier.

"Mmm! I'll bet our hired man had a hard day."

IN LESS THAN ONE MINUTE YOU CAN "ROLL" AGAIN

SILVER STREAK HARD TEMPER EDGES

Trips to town . . . wait for sharpened shares . . Don't put up with it!

In less than ONE MINUTE you can place new edges right over your worn shares—in the field—without extra help or delay.

FITS ALL STANDARD PLOW SHARES (Right or left hand)
CANNOT COME OFF IN USE
NO BOLTS OR WELDING
POINT AND EDGE STAY SHARP
USED IN ALL SOILS FOR OVER 15 YEARS

Investigate this modern, time saving way to "keep rolling." You can't afford to be without SILVER STREAK HARD-TEMPER EDGES.

EDGES SLIP ON AND OFF WORN SHARE EASILY, BUT CANNOT COME OFF WHILE IN USE.

See your dealer or write SILVER STREAK - DYERSVILLE, IOWA for free literature

SILVER STREAK MANUFACTURING CO.

NEW MEYER PORTABLE ELEVATORS WORLD'S FINEST

World's Finest Portables! Exceptionally Rugged Heavy-Duty Model . . . **priced right!** Extra-wide 18" to 22" galvanized steel sections. Extra-heavy double No. 62 chain. 4-roller power-elevated derrick. Roller bearings throughout. Also Big 20" wide Model at AMAZING LOW PRICE. Elevates everything—baled hay, corn, small grain. Write for FREE Catalog and Prices **Today!**

MEYER MFG. CO. BOX 2765 MORTON, ILLINOIS

MAKE BIG MONEY BE YOUR OWN BOSS!

CUSTOM GRIND FEED FOR LOCAL FARMERS

● Build your own good-paying business with an IOWA PORTABLE MILL. Pays for itself quickly out of profits.

One of strongest, most famous on market. CONTINENTAL RED SEAL ENGINE. Hydraulically lifted feeder. 3 Sizes.

Write today for circulars and details

IOWA PORTABLE MILL CO. Dept. WF-25, Oelwein, Iowa

ECONOMY GRAIN BINS

4 TIMES AS STRONG
PRICED TO SELL -
PREPARE NOW FOR SEALING!

MAIL COUPON TODAY

GREEN GABLE BUILDERS, Onawa Ia.
Please send free booklet on items checked:
GRAIN BINS ☐ CORN CRIBS . . ☐
Self Feeder . ☐ Brooder Houses ☐
Pig Incubator ☐ Laying Houses ☐
NAME
ADDRESS

Choice State Fair attractions in the opinion of Mrs. Matt Scott, Decatur county, Iowa, are the baking, canning and sewing exhibits. With her is Kathy, five.

Vote on favorites at State Fair

LIVESTOCK? Machinery exhibits? Women's exhibits? Grandstand shows? Which is the favorite attraction for you at the Iowa State Fair?

The Wallace-Homestead Poll put this question to a sample of Iowa farm people:

"If you could have time to see only one of the following attractions at the Iowa State Fair, which would you choose? Check one only."

	Men	Women	Total
1. Varied industries building	11%	17%	14%
2. Livestock shows	35	11	23
3. Baking, canning and sewing exhibits	1	47	24
4. Midway attractions	1	3	2
5. Machinery exhibits	38	0	19
6. Grandstand attractions	12	18	15
7. Not sure	2	4	3

What were the reasons for their choices? A Jones county, Iowa, farmer said, "I've always had a yen to work with machinery. I guess that's where I'd spend most of my time . . . seeing everything there."

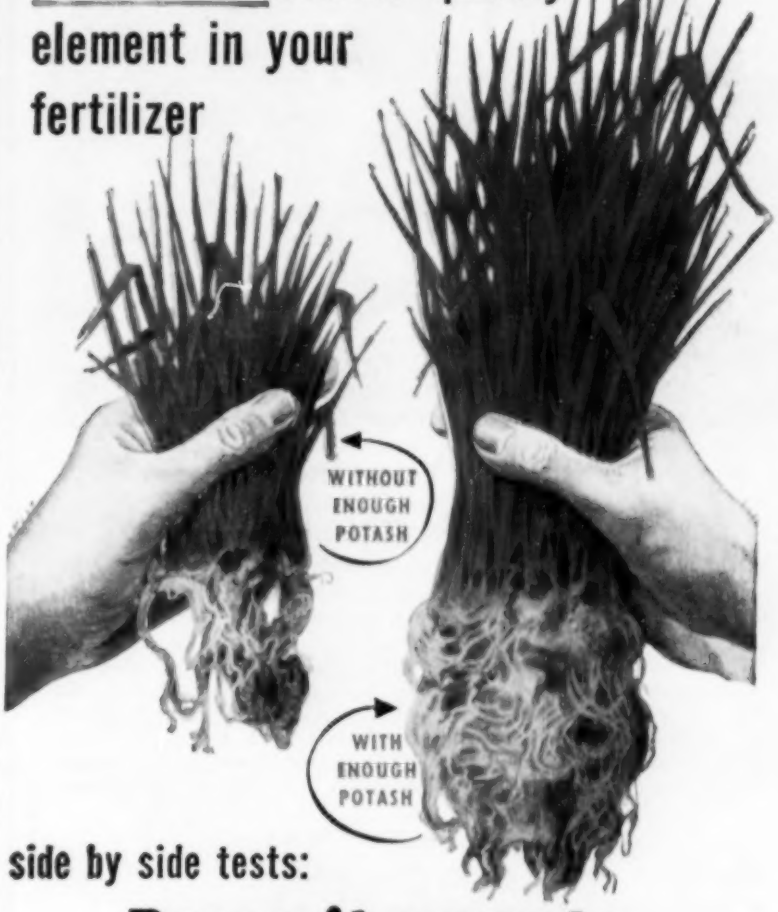
A Webster county farm wife replied, "I love to bake and cook. If I never got any farther than that exhibit, I'd think my time was well spent."

And a young Cerro Gordo county farmer objected to making a single choice. He declared, "I just wouldn't go to the Iowa State Fair if my time was limited so that I could only see one attraction."

But the choice was easy for a young Jefferson county farm wife. She chose "The grandstand. I can get off my feet there."

Grandstand attractions rate first choice with Wilford Cox, Jefferson county, Iowa, when it comes to visiting the Iowa State Fair.

POTASH...the quality element in your fertilizer



side by side tests:

Prove it pays to go heavy on potash

Small grains—whether seeded down to legumes or used as cover crops—get a big lift from generous fall applications of Potash. Thanks to Potash—roots are hardier, stalks sturdier, stands thicker—reducing the threat of winter-killing. And because Potash also promotes *both* quality and yields, your profits are protected. Be sure your fertilizer supplies *enough* Potash. Consult your local agricultural adviser for correct amounts for each crop. But remember, a *low* Potash level means a *low* income level.

SEND FOR THIS FREE BOOKLET

It shows in full color potash deficiency symptoms in field, vegetable and fruit crops. For your free copy write to address below.

Symbol for yield . . . quality . . . profit

AMERICAN POTASH INSTITUTE, INC.

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MEMBER COMPANIES: American Potash & Chemical Corporation • Duval Sulphur & Potash Company • Potash Company of America • Southwest Potash Corporation • United States Potash Company

"HOGS are my business," says John Payer of Pocahontas, "and we feed FELCO all the way for top results. Our Farmers Cooperative in Pocahontas mixes FELCO Feeds fresh daily for top quality. Those savings we get by buying cooperatively aren't hard to take either." Try FELCO from your local Farmers Cooperative.

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To HELP You Increase Your Profit per Bushel

With less acres in corn . . . even with less total bushels to sell or feed . . . you CAN increase your profit! Higher yields per acre give you lower cost per bushel.

FREE: We will send six monthly issues of "Corn News," Moews' own publication devoted exclusively to corn. It will tell you the new ideas in culture, variety-selection, marketing and feeding that will increase your yield and profit per acre in 1956. If you raise corn, just send postal with your name and address to get on free mailing list, no cost, no obligation.

See Our Exhibit at the IOWA STATE FAIR

...say "maize"
MOEWS
Improved CORN BELT Varieties

MOEWS SEED COMPANY
Granville, Illinois

The Genuine Heat-Houser

FIRST AT ANY FAIR!

WHETHER IT'S "STANDARD"

First . . . in protection for you and your tractor.

ON DISPLAY at the IOWA STATE FAIR

OR "DELUXE" with V. U.

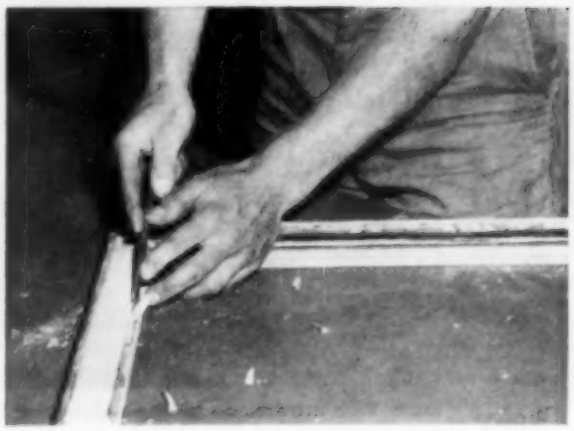
First . . . in advanced design with Vision Unlimited.

No holes to drill, adjustable heat control.

See the leader, "Heat-Houser," at the Fair or write for illustrated literature. No obligation.

HEAT-HOUSER IS ALWAYS FIRST!
BURCH MANUFACTURING COMPANY
FORT DODGE IOWA DES MOINES

How to do it



Clean up the old putty from the window frame before putting in a new pane. It is a good idea, too, to paint the inside of the frame—to prevent wood from soaking up the oil from the putty.

How to replace window panes

Strip of putty is next laid all along the ledge where the window pane will rest. Then press the new glass firmly onto this putty to make a tight seal.

Glaziers points should always be used to hold the glass firmly in place before applying the putty. Putty merely seals pane, keeping out moisture and air. One word of caution: use extreme care when putting in glaziers points—or pane will be broken again before the job is done.

Final puttying completes the job. You now have a layer of putty on each side of the glass. This makes pane practically air and moisture proof.

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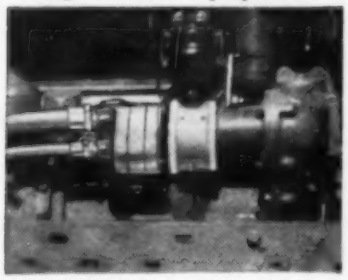
Avoids Stopping, Gear-Shifting, Clutching when using P.T.O. Equipment



Here's the way to save time and money in operating scoops and other hydraulic equipment. Now you may have full time hydraulic power on your tractor with Bennett's Continuous Running Hydraulic Pump. Easily installed on present tractor with your own tools. Works on more than 75% of tractors now in use. Pump runs off magneto shaft to give constant power, regardless of engine speed, just like that on latest model tractors.

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Concrete farm houses and buildings are moderate in first cost, need little maintenance and last a lifetime. If you need help with your concrete construction see your concrete contractor, ready-mixed concrete producer or building material dealer.

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Farm and Feedlot

Clean Sprayers After Use

Weed and insect killing sprays can cause severe damage to spray equipment if it isn't thoroly cleaned out after spraying.

This warning comes from A. H. Schulz, North Dakota Agricultural College farm engineer.

Sprayers which have been used to apply 2,4-D or MCP should be cleaned with household ammonia and water. Here's the procedure he advises:

"Fill the spray tank with water, and add one pint of household ammonia for each 100 gallons of water. Let stand 24 hours, and agitate occasionally. Flush this solution out thru the booms so the complete system will be cleaned."

This won't completely eliminate contamination, but it will leave equipment in good shape for future use.

TCA and other caustic chemicals shouldn't be allowed to stand in sprayers for any length of time. They should be flushed out with water, Schulz recommends.

Draining the pump, storing nozzles in fuel oil, greasing all bearings, and blocking up tires are other suggestions by Schulz to increase sprayer life.

Save Gasoline Lost By Evaporation

Summer evaporation losses from the vent of a gasoline storage tank can run as high as 10 percent a month, reports C. L. Hill, agricultural engineer at Purdue University.

In addition, evaporation leaves a fuel with high gum content in the tank. It's harder to start engines on such fuel. And sticky valves may result.

Here are some of Hill's suggestions for reducing fuel loss:

1. Put storage tanks under shade, either trees or a roof. But keep tanks at least 15 feet away from other buildings to reduce fire hazards.
2. Park tractors and other power machinery in the shade to reduce gasoline losses there.
3. Surest way to prevent evaporation loss is underground storage.

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42%
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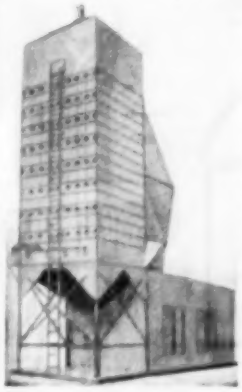

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With new Brush Cutter Attachment quickly and economically clears land of brush and saplings.

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The Model 17 Chain Saw will be demonstrated at many county and state fairs.
See it in action . . . Try it yourself.

HOMELITE CORPORATION
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"Oh, all right! I'll buy you a power lawn mower."

August Bad For Woodlot Fires

The month of August brings in the danger season for farm woodlots, says Richard Crowther, forester at Iowa State College. Danger season lasts to November.

Debris burning and smokers cause most of the fires, Crowther says. So if you're burning rubbish near a woodlot, watch it carefully all the time. And be careful if you smoke in a wooded area.

Warns Of Narrow Cattle Margins

The future cattle feeder market depends on the weather. That's what Rex Beresford, Iowa State College livestock marketing specialist, told farmers at the recent Cattle Feeders' Day.

But all other factors point to no margin or less than no margin between this year's feeder prices and next year's fat cattle prices. Beresford pointed to increasing hog production and the big supply of cattle.

If by next January 1, there are six million cattle on feed, beef cattle prices will likely decline despite business prosperity, he feels.

If drouth in corn producing regions continues, it will make a big difference in demand for feeder cattle this fall. But demand for feeders will climb if a big corn crop is harvested. Big small grain crops and huge acreage of grain sorghums add to total feed supply.

Feed Oats To Milk Cows

Do you have a big crop of cheap oats? Dairy cows may use them profitably.

With oats in the grain mixture, high producing cows are less likely to go off feed than when fed entirely on heavy grains such as corn.

Oats when used as only part of the grain ration have nearly as much nutritive value, pound for pound as does corn. They have a little more protein, but a little less in energy value.

Many dairy men like to feed cows oats that are ground to medium fineness or crimped.

A BRITISH greenhouse is shaded against too much sunlight by colored water flowing evenly over the glass. A photo electric cell is used to control the amount of water according to the intensity of the sunlight.

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FARM DRYER
with BIG CAPACITY
• Powered by your tractor
• Automatic safety controls
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NOW YOU CAN DRY 100-125 bu. shelled corn, soybeans or small grain per hour with the Cropgard. On the job the day it's delivered, it operates out in the field from your tractor's PTO. A powerful fan blasts clean, heated air from twin oil burners through the perforated steel floor of your 170-bu. load. $1985 F.O.B. factory, with running gear, hydraulic hoist and hay sides available as extras. A.S.C. (P.M.A.) financed. *Free picture bulletin.*

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FOUR MODELS: 300, 600, 900 OR 1200 BU. PER HR.

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CONTINENTAL SHREDDER
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DRAINS cellars, cisterns, wash tubs, IRRIGATES • CIRCULATES • SPRAYS
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Pumps 3,000 GPH; 450 GPH 50' high; or 1,800 GPH from 25' well. Use 1/6 to ¼ HP motor. Coupling included free. 1" inlet; ¾" outlet. Stainless shaft. Won't rust or clog! Postpaid if cash with order. MONEY BACK GUARANTEE.
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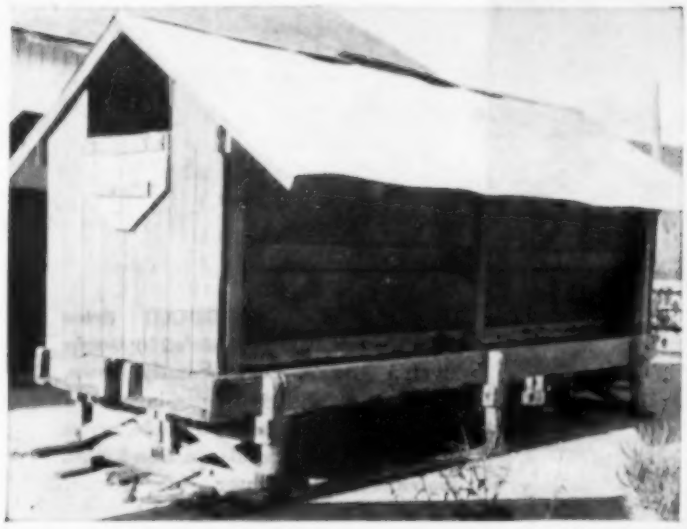
SLOW DOWN AND LIVE!

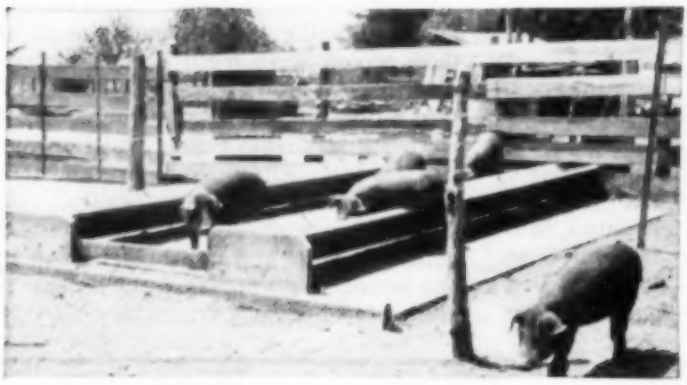


A low cost cattle self feeder on the J. P. Holden farm, Dallas county, Iowa, is shown here. It was made from a storage bin straddling two conventional feed bunks.

Feed lot ideas

They worked on your neighbor's farm; maybe they'll work for you

Hogs eat in the shade and are protected from storm with this self feeder used by Bernard Frye, Scott county, Iowa. Self feeder holds 200 bushels and is filled thru roof hatches. Roof hatches have lapping edges for complete protection and tight fit. Feeder is on skids so it can be used the year around—on pasture and in the feedlot.



Concrete slab shown here keeps troughs out of mud and prevents wallows where hogs are fed milk and sometimes watered. An electric fencer keeps cattle away, lets hogs in under charged wire. Ends of troughs extend under fence so milk or water can be poured in from outside fence. On the Walter Beattie farm, Henry county, Iowa.

Herman Shoup, of South Amana, Iowa, has been Farm Manager at South Amana Farms for 15 years. He has a record producing herd of 85 Holstein cows.

NEW METAL CONTAINER

Self-closing top. Screen bottom provides ventilation, keeps out insects. Dark blue enamel — "hanging holes" in back. Order one NOW — to hold 6 or 6½" filters, $1.10 — to hold 7, 7½, or 8" filters, $1.25.

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CHUCK WORCESTER tells you more about Kendall disks on his "Sunrise Hour" at 5:15 a.m. over WMT.

"USED KENDALL DISKS 10 YEARS—THEY'RE THE BEST!"

Claims Farm Manager Shoup

There are a number, but here are two of the most important reasons why successful dairymen like Mr. Shoup swear by Kendall milk filters:

1. Kendall filters give fast, clean straining *every time you use them.* It's a known fact that cotton fibers vary in strength and filter-ability. Kendall fibers are man-made . . . uniform . . . dependable.
2. Kendall filters give fast, clean straining *with less bulk.* Kendall has as many, or more, fibers than any others. But Kendall eliminates useless, waste bulk by pressing these fibers. This pressing forces the fibers closer together, making a filter that blocks more sediment without slowing the flow.

When you order ask for Kendall milk filters by name. No other filter on the market is *pressed* to filter *best.* Kendall Mills, *Division of The Kendall Company,* Walpole, Massachusetts.

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See them at the IOWA STATE FAIR

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A PUREBRED GILT, can be yours FREE! NOTHING TO BUY OR SELL. JUST COMPLETE THE VY-TAB-O-LATOR JINGLE.

A PUREBRED CALF . . . A FUTURE CHAMP. JUST COMPLETE THE LAST LINE OF THE VY-TAB-O-LATOR JINGLE.

First prize is a choice of either the calf or the gilt. Second prize will receive either the gilt or calf (1st prize has choice) plus 10 other prizes. Do it now! Enter this free contest today!

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JUST FINISH THIS JINGLE AND SEND IN WITH YOUR NAME AND ADDRESS BEFORE MIDNIGHT, SEPTEMBER 15, 1955.

FOR GREATER PROFITS WHEN YOU SELL, VY-TAB-O-LATOR WILL RING THE BELL. FOR PRIZES, PRICES—IT'S THE SAME

Dr. McDonald's Vy-Tab-O-Lator is designed to produce profitable Beef, Swine and Sheep at lower cost. From START to FINISH DR. MacDONALD'S VY-TAB-O-LATOR IS TRULY THE FEED OF CHAMPIONS . . . Over 2,215 top winners during the last 17 years. INCREASE GAIN WITH HOME GROWN FEEDS THE EASY WAY (AND ECONOMICAL WAY) WITH VY-TAB-O-LATOR. WRITE FOR DETAILS. THERE IS A REPRESENTATIVE IN YOUR LOCALITY.

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FORT DODGE, IOWA

FASHIONABLE WEDDING dress from pioneer days is modeled by Gorda Evelyn Harris, Cedar county, Iowa. Mrs. Don Safely (right) displays some old time equipment. On table are a flat iron that used coals, an iron kettle, matchbox and a pleater.

Great Grandmother was a good cook

OVER a hundred years ago, Great Grandmother Safely was kneading bread in her Cedar county, Iowa, home when an Indian woman from a summer encampment came by. This Indian woman showed Grandma how to cut off a slice of raw dough and fry it to a delicate brown on both sides.

Today, four generations later, the Safely family like "Squaw Bread" with butter and honey. Made with modern yeast and flour and fried like French bread, it is a family favorite.

Mr. and Mrs. Don Safely, great grandson and daughter-in-law, now live just across the field from the original site that was homesteaded in 1841. They have a wealth of pioneer stories that they will pass on to their young son, Don David Safely. Many of the stories concern Great Grandmother Safely.

One story that Don David may enjoy is about the time that Grandma Safely gave one squaw a loaf of bread and another a slab of bacon. A quarrel arose between the Indian women. Peace was restored when Grandma cut the loaf and bacon into exact halves and divided it between the women.

Corn meal mush was standard fare in all pioneer families—especially when served with milk.

But Grandmother Safely had a better way. She dropped spoonfuls of hot mush on a big griddle. These were fried slowly till they were crunchy and of a delicious nutty flavor.

Left over mush was molded in big pans and sliced for frying the next day. But it was not considered half so good as the fresh fried mush.

Grandma Safely kept an account book and her store bills sometimes ran as high as $8 a month. Her account book, now in the possession of the Don Safelys, shows that Grandma bought coffee in five pound cans and cost 50 cents a can. She bought nutmegs (to be grated at home), saleratus and codfish that had to be freshened in three waters before it could be eaten.

Occasionally there were a few oranges and lemons, and once there was a 15 cent item for bananas and candy.

There are more personal items in the account book. Items that might have caused Grandma to blush if she knew that they were to be scrutinized later. For several years, Grandma bought her corsets for fifty cents. Then came a year when she went all out and paid $1.50 for one.

Diaries in the Safely family, kept by later members, tell of making apple butter. It was boiled down to a very dark brown and poured into gallon stone jars. It was so hard it had to be cut out in chunks.

Pumpkin stems were burned to charcoal and pounded down to powder as a cure for what we might call "intestinal flu."

Jars and tubs were prepared for the crop of honey that was harvested when the men chopped down the annual bee tree. Corn, beans and apples were peeled, quartered and dried on strings for winter's use. And always they had to fight flies. The account book listed the first fly paper in 1894.

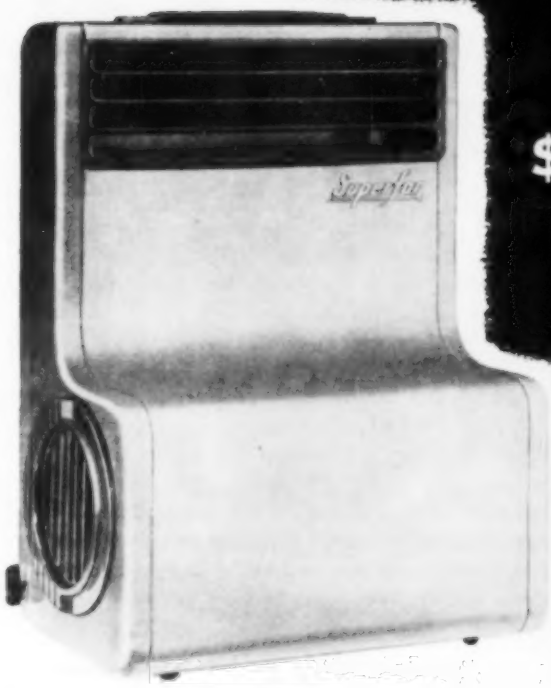
Pioneer women didn't spend their time lightly. Several geese were dressed at a time. The meat was picked from the bones and pickled like pig's feet.

Of course feathers were saved for pillows and feather ticks to put upon straw ticks which were freshly filled at harvest time. Winters were kept busy with lard rendering and meat curing.

Young Mrs. Don Safely and her generation can go to a drug store and purchase vitamins for her family. But Great Grandmother planted hundreds of cabbage plants and made sauerkraut by the barrel. With apples in the basement, she raised her own vitamins.

Homemaking Today

Edited By ZOE MURPHY



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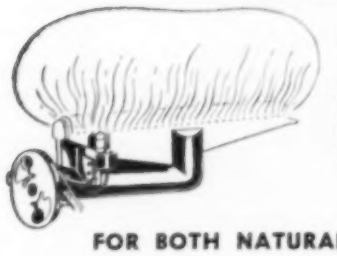

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Mendon . . . Englemen Hdwe. & Lbr.
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Ready for fall

No. 8209. A slim, attractive button front style in half sizes for the shorter woman. Sizes 12½, 14½, 16½, 18½, 20½, 22½, 24½. Size 14½, short sleeve, 4 yards of 35-inch.

Nos. 8141 and 8142. Pretty princess look-alikes. No. 8141 is in sizes 10 to 20. Size 12, 5 yards of 45-inch; ¼ yard contrast. No. 8142 is in sizes 3 to 8 years. Size 4, 2¾ yards of 35-inch, ¼ yard contrast. Two patterns, 30 cents each.

No. 8155. Just a yard of colorful fabric makes this handy bib apron. Sizes 14 to 46. Size 16, 1 yard of 39 or 45-inch.

No. 8230. Tucking on the waist front gives a fresh new look to this versatile classic. Sizes 12 to 42. Size 14, short sleeve, 5⅛ yards of 35-inch.

No. 8265. For important occasions—a collarless style accented with lace and buttons. Sizes 32 to 46. Size 34, short sleeve, 4¾ yards of 35-inch; ⅞ yard wide lace.

Patterns are 30 cents each. Coin preferred. Address orders to Pattern Department, Wallaces' Farmer and Iowa Homestead, Des Moines, Iowa.

Use for old equipment

FLOWER BOXES attached to bars on wheels of an old cultivator make an interesting plant arrangement in the yard of Mrs. Lester Haas, Shelby county, Iowa.

Country air

I RECENTLY looked up an old friend of my mother's. The friend is only nine years younger than Wallaces' Farmer and Iowa Homestead. Mother was one of the first friends she made when she came to our neighborhood which was known as West Bethel. Where the church once stood, it is now only a corner of a good farm.

As we talked of the long time association of our families, I kept seeing the 91-year-old lady as she was when I was a very small girl. She is still brisk, dainty, soft voiced and tiny and loves to wear gay red shoes. She was organist for Bethel church and while she played the hymns for "preaching service," I remembered her best at Children's Day practices.

Patiently she played over and over our "motion songs" and the marches for the drills that mother and our Sunday School teachers taught us. Sometimes there were roses tied to the wands used in the drills. There were two levels to the platform at the church.

The hot summer afternoons of practice when everybody drove the family horse to the church were only a lovely prelude to the great day itself when everybody bustled with importance in a crisp new white dress and Dolly Varden sash. The horses tied to the hitching rails stamped and switched impatiently at flies. Lazy bees hummed in and out while perspiring youngsters tried hard to point to Heaven exactly on the note when we sang "up."

The frosted window panes covered by white paint were raised to catch any breeze and the two big black stoves with great round drums on top to hold winter heat were sometimes covered with arbor vitae boughs for Sunday. The north side of the church was the men's side. The south was the women's side.

Almost as dramatic as Children's Day programs were the ice cream socials which I knew vaguely had something to do with money. The family horses took the ladies and a few men to the church during the day to set up the planks for the tables, measure out the salt for the ice, crank the big five gallon freezers, make the mixture with real cream and see that the lanterns and oil torch lamps were filled.

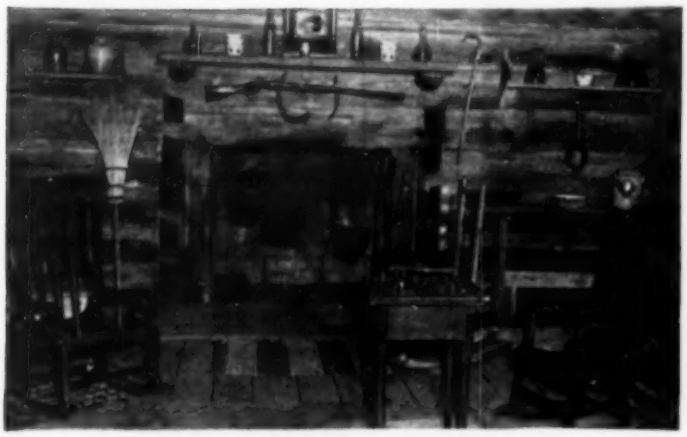
If I could stay awake, there were huge plates of surplus ice cream when the social was over that could not be kept in our unrefrigerated homes. Everybody was picking up cake pans and counting their spoons while my cast iron digestion was reveling in "all the ice cream you could eat."

There was a big wood shed beside the church where children were spanked if they misbehaved in church and where my older brother and other young bucks of the neighborhood hoisted somebody's buggy atop the roof on Halloween. I can still remember the smell of oak wood and kindling. I was saved from being taken to the woodshed during interminable sermons by mother's black kid gloves which I was allowed to play with. I put them on and off, smoothed them out, and snapped the fasteners—a miracle of mechanics—during the sermons.

The little organist remembered that preacher C. K. Hudson said "Let us go to the window and see," when the first automobile the congregation had ever seen chugged uncertainly by.—Elizabeth C. Wherry.

From open-hearths to modern stoves

Cooking is now a pleasure and not a gruelling chore



NO AIR-CONDITIONING 100 years ago. Cooking was done over or in front of a hot fire in the fireplace, even in the hottest weather. This kitchen belonged to Dr. Regnier, a young physician who settled in New Salem, Ill., in 1832. He lived in the village at the same time that Abraham Lincoln kept store there.

A HUNDRED YEARS LATER, kitchens in midwest farm homes had progressed greatly. Cooking was done on coal or wood burning ranges. A supply of hot water was kept in a reservoir at one end of the stove. The water pail was on the nearby table. However, water for family use was still carried in and out and carefully rationed. "Women's work was never done."

WOULDN'T YOUNG MRS. REGNIER be surprised if she could see the modern farm kitchen of Mrs. Bernard Frye, Scott county, Iowa? Beautiful and efficient with every kind of labor saving equipment, good lighting and cheerful colors.

Star Performer at the Fair–

Star Performer in your Home–

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SHELLANE® BOTTLED GAS and LP-GAS APPLIANCES are modern, fully automatic, work-saving performers in your home—and on the farm. Shellane Bottled Gas is trouble-free . . . gives you your own independent fuel supply . . . eliminates worry of power failure due to storms. *And it costs only pennies a day* to operate all appliances. Call your Shellane Dealer below.

Your old appliance may cover the low down payment

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BELLE PLAINE Earl W. Comer
BOONE McIntyres-Boone Service Sales Co.
BRITT Britt Appliance & Furn.
BUFFALO CENTER John & Jerry Hardware

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ESTHERVILLE Coast to Coast Store

FAIRFIELD Robinson's Plbg. & Htg.
FARMINGTON Farm & Home Hardware
FONDA O'Brien & Neavin Ace Store

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GEORGE Grotewold Hardware
GLADBROOK Wentzien Hdwe. Co.
GRIMES Shiffer Hdwe.
GRINNELL Ritter's Hdwe.
GUTHRIE CENTER Fellmeyer Furn. & Appl.

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HUBBARD H. S. Bocks & Son
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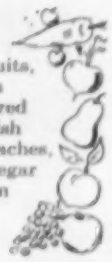
Shellane is a product of the Shell Oil Company

The Big "Why" of Home-Canning

by Lucina Ball

CANNING FOODS AT HOME GIVES PRIDE, PLEASURE, AND FLAVORS WE PREFER, but the *big* reason is the *money saved* . . . 3¢ or less for heat, jar and lid (jar life, 8 years). Juice from home-grown tomatoes totals less than 5¢ a quart! Health building foods for pennies!

Save Color and Flavor, Too!



Use perfect, firm-ripe fruits, tender vegetables. When making preserves, cook red fruits slowly at first, finish quickly. Drop apples, peaches, pears into weak salt-vinegar water as peeled. When in doubt, consult the Ball Blue Book, the No. 1 authority.

Top With Enamel!

Protect color and flavor, too, with the *enamel* lining of Ball Dome Lids—as clean and sanitary when removed as when jars were sealed. They're *easy* to test . . . dome *down*, jar *sealed!* Under Ball Dome Lids put this delicious fruit:

MINT PEARS

Make sirup of 2 or 3 parts sugar to 1 of water. Add halved pears, cook until tender. Add a few drops of mint flavoring, a few drops of green cake coloring. Pack pears loosely into hot Ball Jars, cover with sirup. Process 10 minutes.

Look Through the Glass . . .

The finest commercially-canned foods are packed in glass for extra protection. You can *see* their goodness. Your home-canned foods also deserve the best . . . Ball Jars, made especially for home canning.

20,000,000 Women Know!

That many home-can regularly to save time, cash and flavor! Millions rely on the Ball Blue Book . . . 300 recipes, step-by-step instructions in full color. Send 25¢ in coin to: BALL BLUE BOOK, Dept. W825, Box 5, Muncie, Indiana.

Can ALL in Ball

Guaranteed by Good Housekeeping

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12 Jumbos from any size roll developed 25c with this ad only
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West Texas Woolen Mills, 441 Main, Eldorado, Tex.

NO IDLE HOURS in canning time. Mrs. Gordon Binning, Decatur county, Iowa, cans 250 quarts of fruits and vegetables each year. She also has a 15 cu. ft. home freezer.

Cookery corner

Coconut Cake

- 2 cups sifted flour
- 1½ teaspoons baking powder
- ⅛ teaspoon salt
- ½ cup butter
- 1⅓ cups sugar
- ½ teaspoon vanilla
- ⅔ cup milk
- 4 egg whites

Sift the flour. Measure; then sift again with baking powder and salt.

Cream the butter and one cup of sugar until light and creamy. Add vanilla, then flour mixture alternately with the milk, beating until smooth after each addition.

Beat the egg whites until stiff. Beat in remaining one-third cup sugar. Fold into cake batter. Pour into buttered layer cake pans. Bake in a moderate oven (350 degrees) for 25 minutes.

Frost with seven minute icing and cover with moist coconut.

Nesselrode Pie

- 2 cups cold milk
- ½ teaspoon vanilla
- 1 package instant vanilla pudding
- 3 tablespoons chopped, mixed candied fruits
- 1 baked 8-inch pie crust
- ½ cup heavy cream, whipped
- 2 tablespoons shaved semi-sweet chocolate

Combine milk, extract and pudding. Beat as directed on package. Stir in fruits. Turn immediately into pastry shell. Chill until firm, about 30 minutes. Cover with whipped cream. Top with shaved chocolate.

Ham Cheese Scallop

- 4 tablespoons butter
- 3 tablespoons flour
- 2 cups milk
- 2 cups American cheese shredded
- 3 cups cooked elbow macaroni
- ½ teaspoon salt
- 1½ cups left over cooked ham chopped
- 2 tablespoons horseradish
- 2 teaspoons prepared mustard

Melt butter in saucepan. Stir in flour. Add milk slowly. Cook over low heat, stirring constantly until sauce is smooth and thick. Add cheese and macaroni and salt. Pour into buttered casserole.

Combine remaining ingredients, and mix. Sprinkle over top of macaroni mixture, pressing down slightly. Bake in moderate oven (350 degrees) for 20 to 25 minutes or until heated thru and lightly browned on top.

Blueberry Squares

- 1¾ cups flour
- 2 tablespoons baking powder
- ½ teaspoon salt
- ⅓ cup butter
- 1 cup sugar
- 2 eggs, unbeaten
- ⅔ cup milk
- 1½ cups blueberries
- 2 tablespoons flour
- 1 tablespoon sugar

Heat the oven to 375 degrees.

Sift the flour, baking powder and salt together. Cream the butter and sugar together. Beat in eggs, one at a time. Add flour mixture alternately with milk. Mix blueberries with two tablespoons flour and one tablespoon sugar, and stir into batter. Bake 35 to 40 minutes or until done in well greased, lightly floured 12x8x1 inch baking pan. Cut into squares while hot and serve. Makes two dozen squares.

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Super Flint

AS DURABLE AS ITS NAME

- *long wearing, heavy 10 oz. denim*
- *Sanforized* • *easy to wash* • *comfortable fit*

Looks smart and wears like flint. Super Flint is the dungaree your active youngster can abuse. Backed by a half century of experience and craftsmanship in making the finest work wear. Ask your dealer about Super Flint today!

SYMBOL OF LONG WEAR
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KEEP *baby clothes* **WHITER**
with **Mrs. Stewart's** bluing

Safe for everything baby wears . . . everything washed at home. For whitest white clothes every washday, in any washer, use Mrs. Stewart's Liquid Bluing.

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MRS. ROBERT ANDERSON, Carroll county, Iowa, not only uses gas for cooking in her attractive modern kitchen, she has two gas burning refrigerators.

Many uses for gas on modern farm

Carroll county, Iowa, farmer uses gas both inside and out

GAS from a 1,200-gallon tank in the yard of Mr. and Mrs. Robert L. Anderson, Carroll county, Iowa, supplies the whole farm. In the house, Mrs. Anderson uses it for cooking, refrigeration and a water heater. The house is heated with a gas burning furnace.

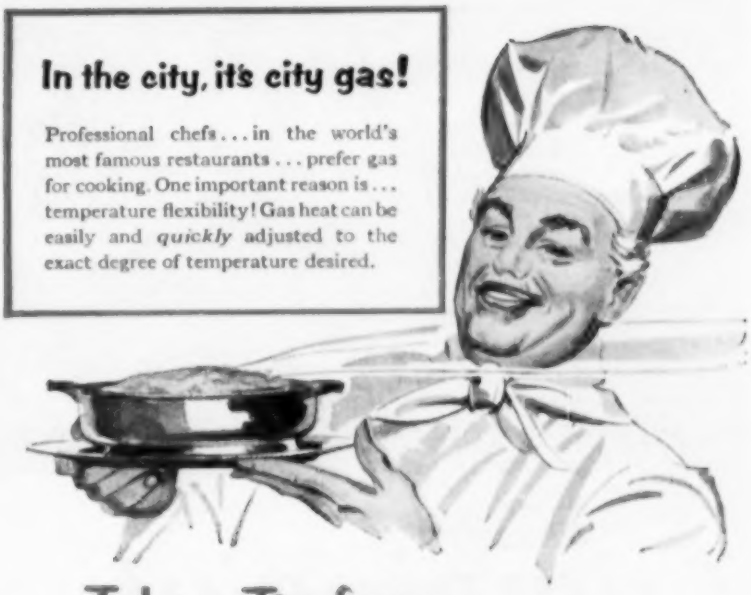
Outside Mr. Anderson has an automatic stock tank heater, a heater in the hog brooder and one in the work house. "We've used gas for a long time and like it," says Mr. Anderson.

ROBERT ANDERSON checks the feed-in line for gas to his hog brooder. Heat is supplied thru fan in winter. Then fan is used for cooling in hot weather.

STOCK TANK heater has been in use on the Anderson farm for many years.

In the city, it's city gas!

Professional chefs . . . in the world's most famous restaurants . . . prefer gas for cooking. One important reason is . . . temperature flexibility! Gas heat can be easily and *quickly* adjusted to the exact degree of temperature desired.



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THE ALL-PURPOSE FUEL

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REGISTRATION OFFICE estimates that between 15 and 20 thousand folks camped at the Iowa State Fair last year. Ninety percent of the campers were farmers. Many had been camping in the same spot for years.

MR. AND MRS. CLIFFORD FORCE and Mr. and Mrs. Linden Nichols of Ringgold county, Iowa, have come together for five years. They bring their families and do all their cooking. Girls in background are Gay and Dianne Nichols.

Camping at the Fair

YEAR after year, thousands of farm families set up tents on the camping grounds at the Iowa State Fair. Some stay for a couple of nights. Others stay the entire fair. Most families bring food and camping equipment.

Neighbors often come together. They make new friends and renew old acquaintances. Everybody has a good time.

THE GORDON GOFF FAMILY of Worth county, Missouri, has camped at fair since 1918. Sometimes they bring friends and neighbors along with them. They generally stay five days.

WALTER ROYS (left), Clay county, Iowa, and 4-H Club boys spent two nights in this 9x9 umbrella tent. Boys are son Bill Roys (left), John Pope and John Moore. No cooking here, they ate their meals out.

OLD TIMER Henry Koch, Grundy county, Iowa, has been camping at the fair since 1922, except during the war. Daughters, Mrs. Ray Callaway (left) and Joyce have come with him. Koch made the handy wash rack just for camping.

COOL DRINKS are not just a luxury in hot weather. They are necessary for good health. See that your family has plenty.

Cool drinks for hot days

It's no trick at all these days to make cool, refreshing drinks

WHAT'S more refreshing on a hot August day than a tall frosty drink? A pitcher of iced tea, iced coffee or fruit mixtures is a welcome sight for men coming in from the field.

Time was when fixing cold drinks was quite a chore. It may have meant a trip to the ice house or drawing up supplies from the cool depths of the well.

But with ice cubes at our finger tips, an abundance of fresh or frozen fruit and instant coffee and tea, they are no trick at all.

Lemonade has long been a thirst quencher. It is said that the Mongolians discovered about 1200 A. D. that juice from lemons was refreshing on a hot day. They didn't know, as we know now, that the lemons also furnished a lot of vitamin C.

A good lemonade syrup is a fine thing to keep on hand. It can be used for making lemonade or added to other fresh fruit drinks. Here's a good recipe:

FRESH LEMONADE SYRUP

2 cups water
2 cups sugar
1 cup fresh lemon juice
dash of salt
lemon rinds

Combine the first four ingredients in a sauce pan. Boil five minutes. Remove from heat. Add lemon rinds, and let stand five minutes. Remove rinds, and discard. Cool syrup. Store in a covered jar in the refrigerator. Makes about three cups.

PINK LEMONADE

½ cup lemonade syrup
1 tablespoon fresh raspberries
ice cubes
cold water

Mix lemonade syrup and raspberries in a tall glass. Add ice cubes, and fill with cold water.

Iced tea is a good summer time drink. It's good to serve with meals or a pick-up when you need it most. The strength is easily varied according to how your family likes it best. You may sweeten it or not while it's hot.

Easiest way to make good ice tea is to use a saucepan. Start with fresh cold water, and bring to a rolling boil. Take the pan off the heat, and put in the tea. Let stand five minutes, and your tea is done. Strain out the leaves, and put the tea in a pitcher.

A good proportion of tea to use is seven tea bags or seven teaspoons of loose tea to the quart.

A new product on the market called I.C.T. makes it still easier to serve iced tea. Add a tablespoon of the liquid, which comes in a handy sized bottle, to a glass of ice water. You have a glass of nice clear iced tea.

Iced coffee is wonderfully refreshing. If you haven't tried it, do so sometime. And please! Do not use the coffee left over from breakfast. Make it fresh and strong, and pour it over ice cubes. Or if you want the process simplified you can use instant coffee. Some brands dissolve instantly in ice water. Others can be dissolved in warm water, and ice water can be added to the strength you like best. Instant coffee can be found in any market. Just follow the directions on the container.

Frozen fruit concentrates are made to order for hot weather drinks. There seems to be no end to the various combinations that are possible. You can make a quart of grape juice or lime juice by simply adding the right amount of water. For something different, try combining the grape and lime juice concentrate, and you have a tart refreshing drink that will taste good on a hot day.

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To the fingertips of America's home sewers

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VIKING AUTOMATIC with the MIRACLE MAGISTAC. Stitches shown, plus countless other patterns are yours to sew. A touch of the finger changes the design. Only VIKING gives you AUTOMAGIC STITCH-SWITCH.

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The first "glad" comes when you hear the loud snap that tells you: you've got a tight seal . . . those built-in latex rings are solidly gripping the jar rim.

Snap **Lid Snaps down!** You've got a high vacuum.

The second "glad" occurs should you fill jar too full, or a bit of food adheres to rim . . . or a tiny gully develops—SNAP goes the lid! Up comes center to warn you in time to check and recan.

Snap **Lid Snaps up!** Check jar rim and re-can.

The third "glad" is when you see the firmness of your fruits and vegetables . . . when you taste the flavors that have been guarded by that exclusive THIRD coat of food-acid resistant enamel.

That's why you'll ALWAYS be glad when you can with BER-NAR-DIN!

69c JAR LIFTER for only 25c and a Box Top from BER-NAR-DIN Snap Lids. Lifts hot jars; prevents burned hands. Send Box Top and 25c to BER-NAR-DIN, 2201 West Maryland St., Evansville 12, Ind.

BERNARDIN *Home Canning* **CAPS AND SNAP LIDS**

It's safer to use SNAP lids!

NO OTHER CLEANER CAN BE USED SO MANY WAYS!

Perfect for

LINOLEUM
RUGS, CARPETS
WALLS, FLOORS
MILK CANS
WOODWORK
UPHOLSTERY
HEAVY LAUNDRY

ONE PACKAGE MAKES 75 GALLONS OF PERFECT CLEANING SOLUTION!

No need to have a lot of different cleaners around the house. No matter what you want to clean, nothing equals Perfex!

Does More, Costs Less

Use Perfex dozens of ways—whenever you want faster, easier, safer cleaning. Wonderful for cleaning anything water won't harm.

A Little Goes a Long Way

Extra concentrated. Makes a gallon of perfect cleaning solution for less than 1c. Wash walls for 1c. Clean a big rug for 5c. Clean your own upholstery, too. Use 1c worth in your wash and save ½ your soap bill. So many ways to use—and save.

Don't Be Without It!

Keep Perfex on hand all the time. Over 15 million boxes sold! It has to be good! Satisfaction guaranteed or your money back.

COSTS LESS THAN 1¢ A GALLON!

TONE BROS.

Old Fashioned Spices

FOR BETTER HOME CANNING

Since 1873, Tone Brothers have processed fine spices, teas, coffee, and extracts. Tone's offer you a complete selection of spices for home canning. Look for the familiar orange and black packages on your grocer's shelf.

Write for FREE copy of Tone's Spice Booklet

TONE BROS. 109 COURT AVENUE DES MOINES, IOWA

HOME-WAY HOUSES

FAST...EASY...DISTINCTIVE
Save Money...Many Models

Factory panels cut out costly hand labor. Easy to erect. Write for prices, plans, facts. DEPT. WF

GBH-WAY HOMES, WALNUT, ILL.

NOW — back to our three-of-each offer. 8 exposure roll 55c; 12 exposure 65c.

Free mailers on request.

EASTMAN STUDIO
Department 5
Bode, Iowa

TV ANTENNAS
ZEE-BEAM
by WELCO
FOR A NEW THRILL IN TV VIEWING ENJOYMENT SEE YOUR SERVICE DEALER

IF YOU WANT TO REST, get a shopping bag or a drink, come to our booth at the east end of the Varied Industries Building. We'll be looking for you.

When you come to the Fair

Weather may be hot, but most of us wouldn't miss it for anything

SOME folks we get to see quite often, but there are others we see only once a year. And that's during the State Fair. And that's one reason we always look forward to the fair.

We hope that you'll look us up as usual. We will be in our booth at the east end of the Varied Industries Building. There will be a shopping bag for the women, hats for the children and a cold drink for everyone.

Mrs. Raymond Strain, farm woman from Union county, Iowa, will be there again this year to try to answer your questions and to help you in any way she can. She will be assisted by Mrs. Wm. Drier, from Hardin county, Iowa, who is also a farm woman.

If you are in doubt as to what you want to see, come to us and let us help you plan your time.

You'll want to see the Rural Family Living exhibits on the ground floor of the Women and Children's building on the hill. Each exhibit represents a phase of the home economics extension program in the counties of Iowa.

These exhibits are interesting and educational and represent a lot of planning and work. Your husband will be interested, too. If it's hot, this is a cool place to rest.

Be sure to take time to visit the 4-H club exhibits that are displayed under the grandstand. You'll be interested whether or not you have 4-H young people in your home. The work they do is worthwhile and shows what some of our young people are up to.

While you are still in the grandstand building, you'll want to visit the culinary department. Some of the best cooks in Iowa bring their best bread, rolls, cookies, cakes, jams, etc., to be judged. Over $1500 is given away for prizes in this department each year.

The Agricultural building holds a lot of interest for every one. All kinds of fruits, vegetables, and flowers are arranged in colorful displays to be judged.

On the main floor of this building, there will be four garden areas this year. These gardens will feature barbecues or outdoor cooking equipment of some kind. If you are planning something of the sort for your own yard, here is a place for new ideas.

If you are interested in new equipment for the outside or the outside of the house, save plenty of time for the Varied Industries Building. You will find just about everything from furnaces to sewing machine needles.

By the time you have walked up and down the aisles of this building, you'll probably have a lot of new ideas or you'll have seen so much you'll feel confused.

Perhaps that is when you'll want to look us up in our booth at the east end and find a comfortable chair where you can rest.

The State Fair isn't just one show—it's many. There is something for everybody—midway attractions, machinery, livestock, education and entertainment.—Zoe Murphy.

For better egg production worm with

DR. SALSBURY'S
WORMAL
GRANULES or TABLETS

The most effective* POULTRY WORMER *of them all!

Wormal, with exclusive drug *Butynorate*, removes *more* of these worms that burden your birds and sap egg production: *Cecal Worms, Tapeworms, Large Roundworms.* Wormal is easy on layers and young birds, too.

convenient—economical

Ask for feed containing Wormal or get palatable Wormal *Granules* to mix in your feed; for individual treatment buy Wormal *Tablets*. One extra egg per bird pays for a worming. Prevent losses due to *recurring* worm infestation. Start a regular Wormal worming program NOW!

DR. SALSBURY'S LABORATORIES • Charles City, Iowa

When you need poultry medicines, ask for

Dr. SALSBURY'S

PIN-WORMS MAY BE A FAMILY AFFAIR

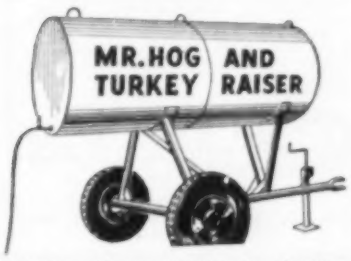
Fidgeting, nose-picking and a tormenting rectal itch are often telltale signs of Pin-Worms . . . ugly parasites that medical experts say infest *one out of every three* persons examined. Entire families may be victims and not know it.

To get rid of Pin-Worms, these pests must not only be killed, but killed in the large intestine where they live and multiply. That's exactly what **Jayne's P-W** tablets do . . . and here's how they do it:

First—a scientific coating carries the tablets into the bowels before they dissolve. *Then*—**Jayne's** modern, medically-approved ingredient goes right to work—*kills* Pin-Worms quickly and easily.

Don't take chances with this dangerous, highly contagious condition. At the first sign of Pin-Worms, ask your druggist for *genuine* **Jayne's P-W Vermifuge** . . . the small, easy-to-take tablets perfected by famous Dr. D. Jayne & Son, specialists in worm remedies for over 100 years.

JAYNE'S P-W for PIN-WORMS



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For speed . . . convenience and economy. Saves time and money . . . gets the job done without physical effort. Gravity feed from 2 in. hose. Outlet 42 in. above the ground. 300 gallon capacity, 19 gauge sheet steel tank. Heavy all-steel chassis, tank correctly balanced for easy pull. Heavy French & Hecht wheels and spindles. Furnished with or without tires. Inside baffle prevents sloshing. Can be converted to sprayer and other uses. Fully guaranteed . . . twenty years of know-how. Write TODAY for FREE literature and direct-to-user prices.

GENERAL ACCESSORIES CO.
BOX 470-K • WASHINGTON, IOWA

TOP PRICES FOR FEATHERS

You get highest prices and prompt payment when you ship your feathers to Midwest, known for dependability throughout the country.

MIDWEST FEATHER COMPANY
1447 Blue Island Ave. Chicago 8, Illinois

The Farm Flock

IOWA EGG GRADING LAW is now in effect. All eggs must be bought and sold by grade. Egg dealers, processors, candlers and graders, and retailers must have a license. These licenses will be issued by the Iowa Department of Agriculture as soon as possible.

▼ ▼ ▼

IOWA SUPREME COURT removed the temporary injunction against the new Iowa egg grading law. A hearing will be held by the Supreme Court later to determine whether the egg grading law is constitutional. Until then, the egg law is effective and will be enforced by the Iowa Department of Agriculture.

▼ ▼ ▼

CLEAN your laying house before housing the pullets. Remove all litter. Scrape dirt off roosts; then wash out the house. Use a disinfectant on floors, roosts, walls and ceiling.

▼ ▼ ▼

PULLETS should be moved to laying house at night. Or if you have range shelters that can be pulled up to the laying house, they can be moved any cool day. Pullets shouldn't be disturbed or upset too much while housing.

▼ ▼ ▼

OVERCROWDING pullets in the laying house doesn't pay. Allow three square feet floor space per bird.

▼ ▼ ▼

PULLETS SHOULD be housed when they start to lay. Some poultrymen house the pullets when about 10 percent of them are laying.

▼ ▼ ▼

CHANGING from open range to confinement in a laying house is a big change for a pullet. It may take several days for pullets to adjust to the change.

▼ ▼ ▼

FEED FOR PULLETS should be changed from growing mash to laying mash slowly. Change the feed before housing or a few days after housing. Make the change slowly. Some poultrymen mix laying mash with growing mash increasing the laying mash gradually until the change is completed.

▼ ▼ ▼

SOME PULLETS can't lay eggs. The pullets that are unable to lay due to physical defects should be removed. These pullets can be sold or used at home.

"They'll learn tomorrow about poison ivy."

TOP QUALITY

TOP QUALITY EGGS Clean eggs everytime assured by Storm Method. Ventilated, extra large, egg compartments.

TOP QUALITY NEST Features that mean
- less work.
- less attention and
- longer life.

Get more for your money...more for your eggs!

Storm "Quality Controlled" **HEN NESTS**

The combined advantages of Storm double deck community nests providing maximum capacity, plus free front entrances for bird acceptance, give you highest quality Rol-Away nests at costs as low as conventional nesting.

Outstanding features include . . . cushioned, plastic coated screens; protected and ventilated egg compartments, which are quickly and easily dusted; new long life curtains; trainer perch system; and easy nest cleaning. **CAPACITIES ARE GUARANTEED** . . . based on actual field performance. All nests sold on a guaranteed satisfaction basis.

CAPACITIES
4 FT. NEST
100 Leghorn type birds
5 FT NEST
125 Leghorn type birds

ASK YOUR STORM DEALER FOR COMPLETE INFORMATION

ALDEN	Schager Produce	LELAND	Eide Produce
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ALVORD	Alvord Produce	LINN GROVE	Linn Grove Hatchery
APLINGTON	Aplington Produce	MARBLE ROCK	Marble Rock Produce
ATLANTIC	Werthington Hatchery	NEW HAMPTON	Dean & Bill's Agr. Service
BAXTER	Al Nuzum Supply Company	NEW SHARON	Goodman Hatchery
BETTENDORF	Devil's Glenn Hatchery	NORTHWOOD	Johnson Feeder Supply
CALMAR	Buchelt Produce	OSAGE	Farmers Produce Company
CARPENTER	Carpenter Produce	RAKE	Farmers Co-op Elevator
CHEROKEE	B & H Hatchery	READLYN	Readlyn Hatchery
CLARION	Isenberger Hatchery	REMBRANDT	Smith Brothers Produce
CLARK	Farmers Produce	ROCKFORD	Trettin Hatchery
CLINTON	Frank Foy Poultry Farm	ROCK RAPIDS	Murrays Hatchery
COULTER	Hamilton Co-op Creamery	ROLAND	Ames In-Cross, Inc.
DECORAH	Decorah Hatchery	SAC CITY	Sac City Hatchery
DUBUQUE	Tri-State Hatchery	SCHALLER	Nibs Hatchery
ELDORA	Crosley Farm Store	SHARPSBURG	Curphey Sales & Service
ELGIN	Capper's Hatchery	SHELL ROCK	Shell Rock Hatchery
ELKHORN	Farmers Produce & Feed	SIBLEY	Von Hatchery
FARLEY	Healey Hatcheries	SIGOURNEY	Sigourney Produce
FREDRICKSBURG	Stork Hatchery	SIOUX RAPIDS	Sioux Rapids Hatchery
GARRISON	Garrison Hatchery	STORM LAKE	Secor Hatchery
HARLAN	Joe Schomer Electric	STORY CITY	Baldus Hatchery
HAWKEYE	Hawkeye Hatchery	SUMNER	Westcott & Winks Hatchery
HUBBARD	Farmers Co-op Elevator	SWEA CITY	Mort O'Line Hatchery
INDEPENDENCE	Ward Hatchery	TRAER	Traer Hatchery & Feed
IOWA FALLS	Yaw Feed & Supply	UNION	Johnson Hauser, Inc.
JEFFERSON	Wisconsin Lumber Company	WATERLOO	Fauser Feed & Seed Co.
JEWELL	Iverson & Sons Hatchery	WAUKON	Waukon Hatchery
KENSETT	Bang's Hardware	WEBSTER CITY	Parkhurst Hardware
KEOTA	Lillig Feed and Grain	WESLEY	Robinson Produce
LAMONT	A. O. Cowles	WYOMING	Robert G. Alden

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"SPECIALIZED POULTRY EQUIPMENT"

AMAZINGLY LOW PRICE CORN CRIBS—ORDER NOW!

Government-Approved! Extra-Strong! Hurricane Ring Construction!

14' Diam., 12' High
900 Bu., **$363**
16' Diam., 12' High
1200 Bu., **$393**
18' Diam., 12' High
1500 Bu., **$465**

Heavy 5 gauge galvanized steel mesh sides, channel locks, steel belts, carriage bolts furnished. Exclusive Hurricane Ring galvanized steel roof. Each crib may be increased ½ capacity with additional section. ASSEMBLES EASILY, comes in sections with complete instructions.

VISIT OUR BOOTH Lots 66 and 67 Iowa State Fair

ORDER TODAY from your dealer, or write direct to

SIEBRING MFG. CO., Dept. WF., George, Iowa

THIS ROBBER STEALS YOUR SUMMER PROFITS

Hurry! Get **BANAFLY** Automatic Cattle Sprayer

Prevent milk and meat losses. Write for FREE description and direct prices. The one and only BANAFLY Automatic Cattle Sprayer saves you hundreds of dollars by ridding your dairy or beef herd of ALL insects. Complete all-steel unit. Favored by Extension Specialists. Easy to own and to use. Immediate shipment anywhere. Don't delay . . . write today.

GENERAL ACCESSORIES COMPANY, Box 470-B
Washington, Iowa

White Pekin Ducklings—25, $8.00; 50, $15.50; 100, $30.00. **Rouen**—25, $10.00; 50, $19.50. Postpaid. Schecket's Hatchery, Springbrook, Iowa.

LEGHORNS AUSTRA-WHITES, MINORCAS, $8.95. Pullets, $16.95. Rocks, Reds, Wyandottes, Hampshires, $8.95; Pullets, $13.95. Heavy Assorted, $6.99. Leftovers, $3.99. Guaranteed 100% Alive F.O.B. Catalog.
BUSH HATCHERY CLINTON, MISSOURI

AAA CHICKS $6.99—100. Reds, Rocks, Hampshires, Wyandottes, Leghorns, Minorcas, Austra Whites. Pullets, $17.99. Heavies, $5.99. Mixed, $4.99. Surplus, $3.99.
EVERYBODY'S CHICKS, CLINTON, MISSOURI

$10.00 per 100. Discount on White Leghorns, Austra Whites, Min-Leghorns. Topcrosses. Pullets out on range, ages from 8 to 16 weeks old. All AAAA Grade. Will make wonderful layers.
STOUFFER'S HATCHERY LENA, ILLINOIS

U. S. Approved, Pullorum Clean Chicks. Rocks, Reds, Wyandottes, Leghorns, Austra-Whites, Minorca-Leghorns. Heavy assorted $8.95. Lights $7.95. Leghorn Cockerels $1.35. Postage Collect.
Sadie Stouffer Hatchery, Waddams Grove, Illinois

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Enjoy velvet-smooth

Air Suspension Ride!
Air Conditioning!
Glareproof Picture Windows!

No other way of travel offers the cool comfort . . . velvet-smooth ride . . . and the magnificent sight seeing possible by Scenicruiser or Highway Traveler!

Magnificent Sightseeing

Thru huge six-foot Picture windows of glare-proof glass!

TYPICAL LOW FARES FROM DES MOINES

Los Angeles	$36.70
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PLUS TAX

NO EXTRA FARE!

Complete Washroom!
aboard every Scenicruiser! With mirror, wash basin, toilet in sparkling Stainless steel!

505 GRAND AVENUE
DES MOINES, IOWA

PHONE
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GREYHOUND

"I'm very well pleased with my DARI-KOOL!"

says CLARENCE ARLEN
DUBUQUE, IOWA

DARI-KOOL
BULK MILK COOLER

Model shown
DKS-250—(250 gallons)

Also available in 100-, 150-, 200-, 300-, 400- 500-, 600-, and 700-gallon sizes

- Milk is cooled to 38° in less than one hour.
- There's NO FROZEN MILK in a Dari-Kool because the milk is cooled with ice water
- Dari-Kool tanks are built of stainless steel — inside and out — (not painted black iron)
- Rugged, bulge-proof construction assures accurate calibration. Tanks are electronically calibrated at the factory and stay in calibration.

Remember — more dairymen buy DARI-KOOL Bulk Coolers than any other brand!

No other cooler can match Dari-Kool's fast cooling and year-after-year low operating and maintenance costs. Units are ready to operate — nothing else to buy or install. Get the facts and you'll get a farm-proven Dari-Kool. See your Dari-Kool dealer today or write for literature — Dept. 89.

DAIRY EQUIPMENT CO. 1444 East Washington Ave. Madison 10, Wisconsin

Distributed in Canada by BEATTY BROS., LTD., Fergus, Ontario

OVER 1,000 USES

Manly's Drive on Platform Trailer has over a thousand uses on the farm. Hauls farm equipment, machinery, buildings, baled hay, crates and hundreds of other articles.

Has a low tilting 8 x 14 foot bed for easy loading. Available with single or dual wheels, with or without platform. Priced amazingly low. Send us a card requesting further information. You'll be glad you did!

MANLY MANUFACTURING CO.

THOR, IOWA — PHONE 6

Out of the files . . .

First 100 years are hardest

"Limp as a rag—"

WE TOO have a gasoline stove and I think now we could not do without it . . . Oh but I was afraid of it at first. It was like pulling teeth to light it the first time alone.

Whenever John was around I called on him to light it while I stood at a respectful distance and told him how; but the time came when I must do it alone. All afternoon I dreaded it, but finally I could put it off no longer and putting the baby at a safe distance, I went to work.

I was so nearly frightened out of my senses that I hurried it too much, did not let the generator burn long enough, and I had to light it three separate times before it "went". When at last it burned all right, I was limp as a rag. I do not know what it could do now to frighten me.—Della Vernon, Iowa Homestead, Jan. 10, 1890.

They tickled!

Ladies camel-hair vests and pants, formerly sold at 75 cents, now reduced to 49 cents each. —Goldstone & Redstone.—Iowa Homestead, Jan. 10, 1890.

Forthright fowl

When ducks get sick, they do not hang around to be doctored but die right away. There is more sense in that.—Pointers, Iowa Homestead, Jan. 3, 1890.

Sometimes

Papa takes the Wallaces' Farmer, and we all read and like it very much. We have a cat, four horses, two cows, about 90 hens and 10 pigs. I have three sisters and two brothers. We live on a farm three miles from town. I sometimes go to school about a mile away.—Josie L. Sellman, Wallaces' Farmer, Jan. 5, 1900.

Fun before duty

Always wash the dishes and make the beds before beginning your day's work.—Iowa Homestead, Jan. 3, 1890.

Theory—

In the next 10 or 20 years, the germ theory (of disease) will be reduced to a science. Investigators are now feeling their way. They are laughed at, as are all explorers for truth. Nevertheless, there is a good deal in the germ theory worth thinking about. — Iowa Homestead, Jan. 10, 1890.

"I didn't win the argument over the line fence, but he sure knows how I feel about it."

There's no gas like Skelgas

You'll always be sure of a supply of gas even in the dead of winter when you use Skelgas. Millions of gallons of Skelgas are stored underground, so that your Skelgas dealer can assure you of a constant and *dependable* supply of Skelgas. To be sure, insist on dependable Skelgas.

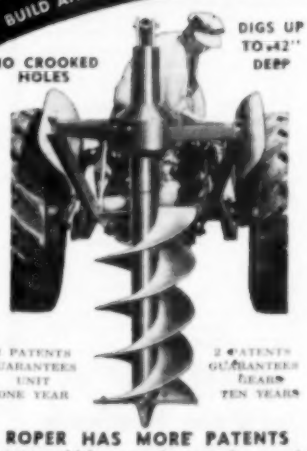
Dependability is one of the most important services a Skelgas Dealer offers.

World's Finest Fuel and Appliances

HOW TO BUILD A BETTER FENCE

ROPER POST-HOLE DIGGERS

BUILD AND REPAIR FENCES FOR LESS!



ROPER HAS MORE PATENTS

Patents which cause farmers less work, give MORE POWER and BETTER PERFORMANCE. Timken roller bearing inside housing unit plus 4" roller bearing at dig-point, doubles auger strength . . . eliminates costly break-downs, caused by bending or breaking the main shaft. Roper's shear pin replaceable in field ABOVE the hole.

Write for Literature

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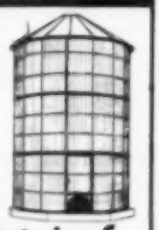
ON DISPLAY AT LINDSAY BROS. EXHIBIT AT THE IOWA STATE FAIR

LOW COST CORN CRIB



FULLER corn-saver crib . . . built to stand 6 times the pressure of ear corn.

1,200 bu. or 800 bu. 2 men can easily set up in 2 hrs. All steel pre-fab sections. Galvanized steel roof. Double door, 2 ft. and 6 ft.

See your dealer or write for more information.

FULLER Manufacturing Co.
Dept. 1372 — CENTERVILLE, IOWA

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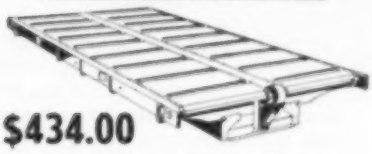
SEE THIS AT THE MEAD FAIR EXHIBIT

NOW! A SELF-UNLOADING PTO WAGON AT LESS — MUCH LESS COST!

Use This 7 ft. x 14 ft. All-Steel Self-Unloading Platform and Order Cobey Accessories to Best Suit Your Farm Operation.
Platform is Complete with: Steel Floor -- 4-Chain Conveyor Unloader -- Oil-Bath Gear Box -- Complete PTO Shafting.

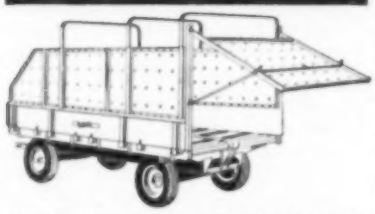
MOUNTS ON ANY WAGON GEAR



$434.00

Plus Freight and Handling from Bucyrus, Ohio.

OR BUY THE COBEY SELF-UNLOADING WAGON FACTORY BUILT TO FARM SPECIFICATIONS.



Complete with Axles and Wheels, also available . . . Grain Sides, Forage Sides, Bows, Ensilage Tailgate, or Grain Tight Tailgate.

USE THIS HANDY COUPON

Cobey MEAD FARM EQUIP. CO.
P.O. Box 1421
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Send me details and low price on your self-unloading forage wagon.

Name _____
Address _____
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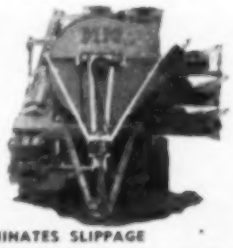
THE ORIGINAL

PTO CORN SHELLER DRIVE

For MM Model "E"
"Proven By Use"
By Commercial Shellers and Farmers



★ ELIMINATES SLIPPAGE
★ ELIMINATES SETTING UP WITH BELT
★ ELIMINATES UNHITCHING TO MOVE SHELLER FROM JOB TO JOB

This power take-off drive has a double roller chain drive that will not slip in wet weather, thereby eliminating a corn sheller's greatest trouble.

SEE YOUR MM DEALER OR WRITE

DRUM'S RUTHVEN, IOWA

New Morton ROLLER CHAIN Elevators

HEAVY DUTY TYPE
Before building your crib, write for our free crib plans, also large catalog showing many styles of "NEW MORTON" FARM ELEVATORS with the Original and Genuine Roller Chain. Strongest, Simplest and Easiest Running. Elevates beans, oats, ear corn. 50-bu. in 3 to 5 minutes. Any style hoist. Built to fit your crib. Write today.
MORTON ELEVATOR CO.
Box 438, MORTON, ILL.
See the new Morton Elevator Display at the IOWA STATE FAIR

MASSEY-HARRIS 16-Foot COMBINE
For sale. Bought new late last fall.
P. O. Box 92 Cozad, Nebraska

Out of the files . . .

Kerosene

Color from colored clothes often adheres to the wringer and is very hard to wash off, but if you will try using kerosene to clean it, you will have no more trouble. Kerosene is also good to . . . wash dishes.—Iowa Homestead, Jan. 10, 1890.

Kerosene is still the old reliable in the cure of (poultry) colds, roup and many other kindred diseases.—Pointers, Iowa Homestead, Jan. 10, 1890.

Could granddaughter handle them?

Ask the woman at the farmhouse what is her chief source of terror about the premises, and I think she will tell you it is the flock of small hogs that infest the dooryard of too many farm homes. "The pigs got in," is the prelude to many a tale of woe . . . Each little frontest part of each little pig is counted as a "forerunner of evil" for piggy needs but follow his nose . . . and the dearest spot to him lies within the boundaries of a dooryard fence.—Iowa Homestead, Jan. 10, 1890.

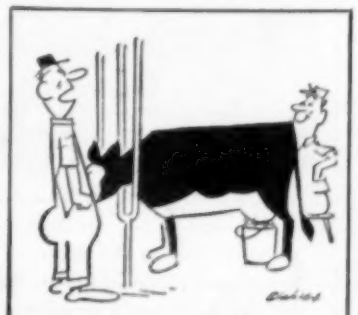
Now the bedbug is . . . under the microscope a very beautiful insect but like the saloon keeper, however much I may admire . . . (his) appearance, I don't like the way he gets his living. Get an ounce of corrosive sublimate in a pint of alcohol, and apply freely with a feather in every crevice. Don't let your druggist persuade you to believe that turpentine will do as well as alcohol. It will not . . . so watch closely what you get!—Mary Viola, Iowa Homestead, Oct. 31, 1890.

Wire cut

. . . A remedy I have used with splendid success. I take materials as follows: "Pint of soft water, two ounces of blue vitriol, pulverized, two ounces of pulverized salt-peter, two ounces of sweet oil. Put all in one bottle and stand in the sun. The longer it stands in the sun, the better it gets. . . . Keep the sore clean and apply with a feather."—A Minnesota Farmer, Wallaces' Farmer, Feb. 23, 1900.

Inventory

How to take stock? Take it; that is all. Begin with the horses. Count them, and appraise them at what they are worth—a little less than you think they will sell for, for we are all more or less like the Irishman whose pig didn't sell for as much as he thought it would and he **knew** it wouldn't. —Wallaces' Farmer, Jan. 5, 1900.



"One more remark like 'Here I am on the udder side,' and you're fired."

SOMETHING NEW!

HIGH-SPEED KNOEDLER BURR MILL NOW DUAL PURPOSE

. . . GRINDS CORN PLUS *SMALL GRAINS*

The fast-grinding Knoedler Burr Mill now handles oats—*up to 150 bushels an hour*—grinds shelled corn . . . extra fine! Milo, barley, rye and wheat can also be ground for feed at terrific capacities.

And you can still grind ear corn up to 300 bushels an hour—also shelled corn and cobs. An easy 5 to 10 minute change-over replaces the corn grinding parts with the new, amazing Small Grain Assembly.* With assembly installed, 2280 cutting edges create more than *half a million* shearing actions per minute! You get a "gusher" of grain that is uniformly *ground*, not hammered.

*PATENT APPLIED FOR

KNOEDLER BURR MILL OWNERS— the new small grain assembly will fit your mill. Ask your dealer about it now!

LIVESTOCK, DAIRY, POULTRY FEEDERS— Knoedler optionals include automatic conveyor for ear corn and cobs . . . cob burr for litter . . . hopper magnets . . . auto wheels. Send coupon for full facts now!

Knoedler DUAL PURPOSE BURR MILL

KNOEDLER MANUFACTURERS, INC.
Dept. 250, Streator, Ill.

Send Knoedler Burr Mill literature, prices, samples of "Knoedlerized" corn and oats—plus name of nearest dealer. No cost or obligation to me.

Name _____
Address _____
Town _____ State _____

BETTER GAIN$ with FARM GRAIN$

ILLINOIS "Quick Growth" Supplements

COMPLETE FOR YOUR PROTECTION . . with . .

UNLOCKS *Your Profits*

LIVE CELL TORULA YEAST
TERRAMYCIN • *AMINO ACIDS
PROTEINS • VITAMINS AND MINERALS

ILLINOIS QUICK Growth SUPPLEMENTS

WRITE FOR *Free* CIRCULARS
ILLINOIS MFG. CO. of QUINCY
QUINCY, ILLINOIS

OVERLOAD SPRINGS

Fits all pickups. Will carry 2000 extra lbs. Half price of regular overload springs. Guaranteed. Send check or M. O.

ONLY $9.75 PER PAIR
HARVESTER EQUIPMENT CO.
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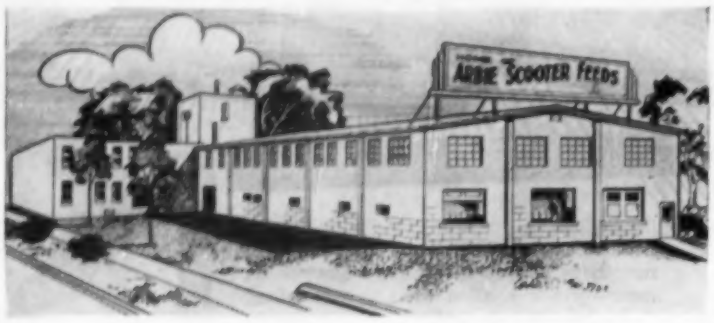
Pig, Hog and Poultry
WATERERS
CRANE MFG. CO.
3900 Hubbell Blvd. Des Moines 17, Iowa
SEE OUR EXHIBIT AT THE FAIR

PROGRESS



Shown above is the new addition to the Arbie plant.

When a company grows from a small one man concern into a million dollar a year business, there has to be some good reasons behind it.

A business, in order to grow and prosper, has to have a product which when put to all sorts of tests, will stand up and do the job. And a business has to have people of high standard and principle managing it.

This year will be the biggest year in our history. Why, because more people are placing their trust and confidence in an Arbie Feeding Program.

The Arbie Mineral Feed Company operates direct to the farm through Farmer Dealers.

Stop in and visit our booth at the Jones County Fair, the Iowa State Fair, the Clay County Fair and the Dairy Cattle Congress, or write for free information.

ARBIE MINERAL FEED CO. INC.

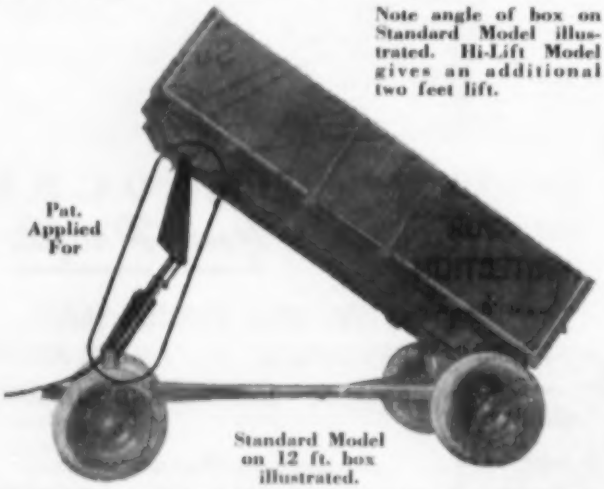
MARSHALLTOWN, IOWA

ENERGY BOLSTER HOIST

Standard Model—5½ ft. lift (5 or 6½ Ton Capacity at 1000 psi.)
Hi-Lift Model—7½ ft. lift.

- **All cylinders can be operated with either 1-way or 2-way hydraulic system.**
- **High pressure cylinder available for Allis-Chalmers.**
- **Can be mounted on any standard farm wagon.**

Note angle of box on Standard Model illustrated. Hi-Lift Model gives an additional two feet lift.



Pat. Applied For

Standard Model on 12 ft. box illustrated.

The superior design of the Energy Hoist results in greater utilization of available power. Energy Bolster Hoist is scientifically engineered so that rate of lift is in direct proportion to decrease of load as box is being lifted, thereby providing higher lift and greater load with same available power. There is less wasted energy with an Energy Bolster Hoist!

See Your Local Energy Dealer Today for Details and Demonstration

ENERGY FARM EQUIPMENT CO.
MONTICELLO, IOWA

Give fall pigs clean start

Should you pen sows for farrowing? Or let 'em farrow out in the field?

WHERE will your fall pigs be farrowed? Should you pen the sows up? Or should you let 'em farrow in the field?

Best answer may depend on your facilities. You'll find good hog raisers using both.

Ed Miller, swine specialist at Purdue University, favors penning the sows—in central houses or open-face, pull-together type houses. Most farmers will save more pigs when sows are penned, he argues. Baby pigs have better protection and sows are more comfortable.

Miller is dead set against sows having pigs in an open field. Late summer sun can be almost as deadly as cold weather, he points out.

What about farrowing in wooded areas? Okay, says Miller, if the woods are used only for fall farrowing. Otherwise sanitation may be a problem.

Another point in favor of penning the sows is this: Labor required for feeding and watering usually is less. When sows pick their own farrowing spots, they'll be scattered all thru the woods or over the field.

However pigs can be farrowed in fields with good results, if you take the time to care for them properly. Some farmers, like Carl H. Meyer of Crawford county, Iowa, move small A-type houses over their sows when they nest—or soon after farrowing. Those little pigs need protection from hot sun or hard, driving rains.

Most baby pig troubles are the result of filth-borne infections. And sanitation is less of a problem when pigs are farrowed out in the field. But the risk of over-exposure on cool nights or in rainy weather offsets that advantage to some extent.

If sows are penned, be sure to scrub pens thoroly before you put the sows in. And scrub the sows too—especially the udders.

Flu, later in the fall, is always a threat to fall pigs. And you can cut down the risk of having a flu outbreak by keeping fall pigs on ground that hasn't been occupied by other hogs this year.

Reason: Lungworms which pigs may pick up in old hog lots often carry the flu virus. Then if the hogs' resistance is lowered due to chilling or over-exposure, the flu virus is ready to take advantage of the situation.

Anything else you should be doing to prevent disease? Dr. P. D. Beamer, veterinarian at the University of Illinois, makes this suggestion:

If you have had erysipelas in your herd, you should plan to vaccinate for this killer before your pigs are two weeks old.

The vaccine is not 100 percent effective, Dr. Beamer admits. But usually it will protect your pigs long enough to get them to market.

Erysipelas isn't so deadly as cholera. But even if pigs live thru an erysipelas attack, they're likely to be stunted and unthrifty.

Award beef heifers . . .

Beef heifers will be awarded at the 1955 Iowa State Fair to three 4-H beef club members. Awards are to be made on the basis of accomplishment, need, intent to breed beef cattle and community activities. They are sponsored by the beef breed associations and the Iowa State Fair. Pictured are last year's winners. From the left: Leon Praille, Franklin county; Dean Handsaker, Story county, and Dee Davidson, Taylor county.

Rural Route Ramblings

By R. F. D.

I JUST WENT down to look at my garden—what I could find of it, that is. This year I can blame the grasshoppers and rabbits. What with their destroying all of my beans except three, eating or ruining the turnips and beets and carrots, I sort of grew discouraged and let the weeds take over.

I WILL HAVE some tomatoes tho and quite a few onions. As soon as I can locate the onions, I am going to harvest them. But at the moment there is the danger of (1) being eaten by grasshoppers and/or (2) becoming lost. Those weeds are really high!

ON THE WAY BACK to the house, I gazed pensively at a fireplace I spent a week building a year ago last May. It was going to be the scene of many a merry, festive family meal and also keep me from going to picnics.

SO FAR THE KIDS have used it once burning up some weiners and marshmallows. And I am still being forcibly dragged to all sorts of picnics.

I ALSO NOTICED a brick retaining wall I started a year or so ago which is all complete except the last row or so of bricks. These unused bricks are scattered attractively about the place—in the yard, here and there in the driveway, over, on and under the porches.

WELL, WHAT do you know? There is that missing sickle—right there about half way thru that patch of weeds!

I PAUSED and surveyed my domain. It seemed to me that half of the house looked a lot whiter than the other half. Then I remembered I started to paint it a week or so ago.

BY THIS TIME all these projects had exhausted me and I limped back into the house, carefully avoiding the second step of the back porch which is loose and which I am fixing.

I TELL YOU I have so many projects going I am just going to have to get more rest.

AND I think I'll start now.

"But it'll be just for a day or two while I'm working on the stock tank."

FORD gives you more tractor for the money...

lowest priced power IN THE 2-PLOW CLASS! *

*Lowest cost per horsepower of tractors equipped with hydraulic systems! Based on suggested list prices f.o.b. factory at time this advertisement was written.

New FORD 630 TRACTOR

If you want to *drive a bargain*, see your nearby Ford Tractor and Implement Dealer!

Have him show you the new low-priced Ford 630 Tractor. You'll find it gives you *more tractor for the money* than any other general utility tractor in its power class.

But low-priced power is only one advantage. You'll find dozens of other unique Ford Tractor features that help make farming far easier and more profitable than ever before.

No wonder more and more dollar-wise farmers are saying, "It *pays* to farm with Ford!" We believe you'll agree, too. So check with your nearby Ford Tractor and Implement Dealer for high performing, low-cost tractor power. Ask him, too, about all the other new Ford Tractors—both 4-wheel and Tricycle. You'll find he offers all kinds of powerful buys! Tractor and Implement Division, Ford Motor Company, Birmingham, Michigan.

...and

LOOK WHAT YOU GET!

- Ford's low-friction "Red-Tiger" engine—more power with less wear
- Live-action hydraulic system with both implement position and constant draft control
- 3-point hitch for quick attached implements
- Weatherproof ignition system
- Safety starter and ignition lock
- Reserve fuel tank
- Oversize 14-inch brakes
- Adjustable wheel spacings

...and much more!

LOW DOWN PAYMENT
Easy Terms

SEE YOUR LOCAL DEALER

Ford Farming

GETS MORE DONE...AT LOWER COST

'THE ORIGINAL'
Best Known Bag of DRIED MOLASSES

Omalass

Ideal for PRESERVING SILAGE

Omalass is wonderful for preserving silage. Since 75% of the nutrients in Omalass are retained in the silage, only 25% of the cost is actual "preserving expense." Omalass is DRY, SWEET, EASY TO USE—can be blown or sprinkled into silage.

Be SURE you get genuine Omalass in the familiar bag if you want to get most sweetness, the most quality, the most molasses, the most dependability in a dried molasses product. Omalass is guaranteed over 85% blackstrap molasses.

SEE US AT THE FAIR—BOOTH 1, CATTLE BLDG.

VyLACTOS LABORATORIES, INC.

1901 E. EUCLID AVE. DES MOINES 13, IOWA

This work-saving Combination Drawbar and Transport Harrow Evener uses and carries six sections of any kind of spike tooth harrow (except B088). Folds for fast, easy transport. Available in four sizes to suit your section width. Trailer is made of 3" channel and heavy angle iron with square tubing tongue. 15" wheels furnished equipped with Timken bearings. Converts quickly to farm trailer by removing six bolts and adding box.

At The FAIR! *See These Van-Web Power Tools on display*

THE VAN-WEB WAGON AND HOIST

Made for heavy duty and long service—the Van-Web hoist lifts 10,000 lbs. easily with the stability of twin cylinders. Lifts the box from the center with its own steel beams. Has oilite bronze bearings, works from tractor hydraulic system and is built ruggedly. It's companion wagon is hi-clearance, short-turning, with 70 inch tread. Has no reach, hounds, bolsters. Equipped with Timken bearings and auto steering, the Van-Web is built for service.

NEW-IMPROVED FLOOR AND TRUCK CRANE

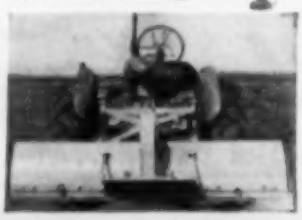
Fully warranted to lift 2,000 lbs. from floor or 1,500 from truck. Changes from one job to the other by removal of two pins. The floor carriage has four wheels; two that are rigid, two are on swivel to prevent tipping. Hand operated double-action pump is mounted under boom to deliver most thrust and power. Solid steel shaft inside tube at truck level prevents hoist from bending under load. Here is a back saver for you with an amazing 11 foot lift from low to high position.

THE HEAVY DUTY HI-LIFT

Here is light-weight, heavy duty giant that can lift 5 tons easily. And do it fast. Has a rugged "A" frame . . . a 1½" ram with ⅝" pump. Will lift 58" up from wagon bolster. Two box irons are furnished with each hoist. All pump parts easy to remove and repair. Weighs only 80 lbs. for easy handling. Jack is removed by simply lifting a latch.

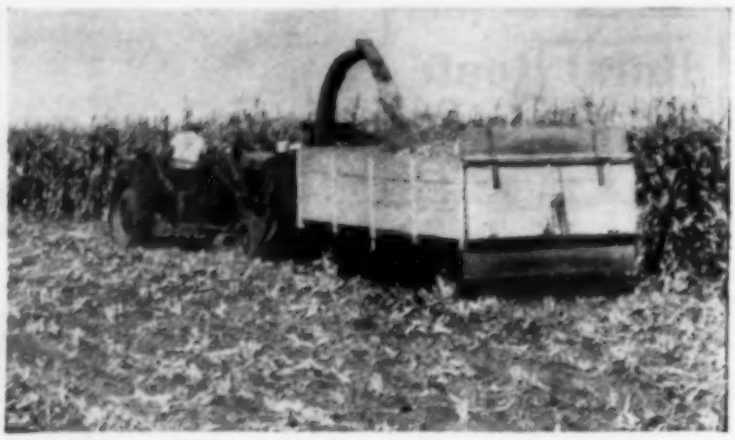
VAN-WEB QUALITY DOZER BLADE

Look at these quality features . . . 6⅝" standard highway punched cutting edge . . . 6 foot x 17 inch blade. 11½" offset either way . . . 3 position tilt . . . 5 positions forward, 3 backward with single pin control. Full circle blade movement with handy lever control. Blades and mounts available for 9 different makes of tractors. All workmanship and materials guaranteed.



You'll find us on Lots 31-34 in Block "D"

VAN-WEB EQUIPMENT COMPANY CHARLES CITY, IOWA



Harvesting too late is one of the most common reasons for poor quality corn silage. Best stage usually is when ears are in early to medium dent.

What stage for corn silage?

Should you tramp the silage? What about adding some water?

IN THE form of silage, corn has about 50 percent more feeding value than when fed as grain and stover. That's if you do a good job of making and storing the silage.

Cutting the corn at the right stage is one of the keys to good silage.

Ensile too early, and you sacrifice feeding value because the crop hasn't developed its full yield of nutrients. Also, you're likely to have sour, soggy, unpalatable feed.

But if you wait too long to start ensiling, corn may be too dry to pack well. Moldy silage often results.

"Only trouble we ever had with silage was when we didn't get around to cutting it until it was too dry," says Clyde Galloway of Marshall county, Iowa. He thinks you get the best silage if you cut corn "when it's in the dent—just dented—not in the hard dent."

Galloway's experience agrees pretty well with the advice of university experts in Wisconsin, where dairy farmers make lots of silage. They say that most poor silage is the result of harvesting too late.

So the Wisconsin silage experts urge farmers to start ensiling fairly early—when most but not all of the kernels have dented. Goal, they say, should be to have all the corn in the silo before it passes the medium dent stage, at which it usually contains about 70 percent moisture.

The Wisconsin workers admit that early silo filling means somewhat lower yields than possible with ripe corn. But they believe that's a small price to pay for high carotene content and good keeping quality of early cut silage.

Usually it's the ears—not the stalks or leaves—which are the most reliable guide as to when corn is ready for the silo.

However, if drouth or some other factor causes stalks and leaves to dry up early, you'll be ahead to go ahead with silage making. In that case, you may not want to wait for proper denting.

Not everybody will agree on the best stage for making corn silage. For example, there's Denny Hennings of Benton county, Iowa. He farms in partnership with his father, who has made corn silage for years. They feed the silage to fattening cattle.

"We're usually about the last to start making silage," Hennings says. "It's gotta be well dented. We put a little water with it and add some molasses, rather than put it up early."

Greater feed value of more mature corn is Hennings' biggest reason for waiting until corn has reached the hard dent stage.

Illinois workers say that as a rule silage that contains the right amount of natural moisture is better than "watered" silage. But adding water can improve keeping quality of corn that's too dry when ensiled.

It's best to add water to the silage as it's blown into the silo. Adding water after the silo is filled doesn't work too well. It's hard to get the water evenly distributed. Usually, it will run down along the sides of the silo. Center remains dry.

In filling an upright silo, should you put a man in the silo to tramp the silage? You can find lots of arguments on that subject.

"It just takes an extra man. And we've never had trouble with spoilage," says Hennings.

But Galloway thinks it pays to put a man in the silo for tramping. "Otherwise you'll have pockets of air to start spoilage," he argues.

Experimental trials and farm experience show, however, that you can get good silage without tramping it—if corn is harvested while it's moist and heavy. If you don't tramp the silage, be sure the blower is placed at the center of the silo so that the silage will pile up and be distributed evenly.

"I did. He was so filthy."

Outside stuff

FLIES go for these highly palatable, prestarter baby pig feeds in a big way. They're a real problem when you're trying to wean pigs early during summer, says Otis Hofer of Clinton county, Iowa. He weaned June pigs at about two weeks of age.

Hofer reduced the fly problem by moving his baby pigs to a fresh spot in his alfalfa field every week. That way, he kept pigs away from filth from which new flies were hatching. Spraying pig pens every few days also may be necessary.

A FRIEND in Jones county, Iowa, tells me that farmers in his area were "running all over the country" trying to find combine repairs during oats harvest. The heavy crop gave old combines a real test. And implement dealers weren't prepared to handle the heavy demand for replacement parts.

MORE about "moon farming." Albert McClure of Union county, Iowa, says he always weans calves according to the almanac.

"They'll bawl like the dickens if you wean 'em when the sign is up in the head—cows and calves, too," McClure declares. He waits until "the sign is below the knees."

"BEST water in the United States!" a Cedar county, Iowa, farmer declared as he offered me a drink from his well. In the last few weeks, I've heard similar comments from others.

There's no water like the water from your home well. I can remember how fast I used to head for the well after returning home from a trip to the state fair. That deep, satisfying drink of home water was just about as good as anything at the fair.

Well, you won't find water as good as you have at home on the Iowa State Fair grounds. But you'll find COLD water in the Wallaces' Farmer and Iowa Homestead booth. At least it's Iowa water.

—Dave Bryant.

Grow farm-proved **KINGSCROST HYBRIDS** *protected by* **TWP** *seed treatment...*

Get more from every acre!

New corns added this year have typical KX vigor and high yield ability

EARLY JUNE FIELD of farmer Lewis Geurkink already shows the fast spring growth and extra leafiness typical of the new Kingscrost varieties. "I've been trying new Kingscrost corns as they come out," says Geurkink. "Had good luck with them all. But this one looks to be the best yet. Through the years, I've found I can count on Kingscrost for accurate planting, even stands and top yields."

WIREWORM DAMAGE STOPPED by new TWP seed treatment. Plants above are pictured on the same field the same day. Infestation of wire worms did little harm to Kingscrost (left), but seriously thinned the stand and stunted the growth of the other hybrid (right). New TWP—"Two Way Protection" seed treatment—on Kingscrost controls kernel feeding of other soil insects, too.

CHECK OVER THESE *NEW* KINGSCROST VARIETIES

Choose the one that fits your farm

IF YOU'RE NOW GROWING THIS KINGSCROST VARIETY	HERE'S THE NEW KINGSCROST VARIETY YOU'LL WANT TO TRY	
KS6	KS5	Outstanding yielder. Early corn for northern Iowa. Excellent kernel depth on large ears. Strong roots, stalks and shanks mean less down corn, fewer dropped ears. Dries rapidly in the fall.
KO5	KO4	Shorter plant height than KO5. Stronger plant and shorter shank as well. Maturity is the same as KO5. Yields are equal or better. Medium maturity for northern Iowa.
KT	KT6	About 5 days later than KT. A medium to early maturity for central Iowa. A widely adapted corn with fast spring vigor. A clean picker. Long, well-filled ears carry big deep kernels to insure a high shelling percent.

For outstanding performance under heavy plant population grow Kingscrost KL1. Early hybrid for northern Iowa.

Farm performance of the newest Kingscrost hybrids is bearing out what years of field trials and actual farm tests promised. Like all Kingscrost hybrids, the new varieties offered generally for the first time this year already have proved themselves worthy of the Kingscrost name. Growers of the new corns reported that the plants were faster-growing, had strong roots and stalks, and gave higher yields than ever before.

ALL KINGSCROST DEPENDABLE

You can count on the best possible results from any hybrid developed by Northrup King. Behind each Kingscrost variety stands thirty-four years of experience in breeding hybrids. These corns also undergo years of trials in research plantings. Finally, the hybrids must give good results in full-scale farm use. Before release, a Kingscrost hybrid must prove it can produce a good corn crop under a wide range of soil types, weather conditions and farming methods.

YIELDS UP WITH TWP

Only Kingscrost hybrids offer the extra safety of new TWP—"Two Way Protection" seed treatment. Each kernel is protected against attacks from hidden soil insects as well as fungus diseases. Cornfield stand counts in both 1954 and 1955 showed farmers growing TWP treated Kingscrost averaged over 3% more plants. Thus your corn yield increase from TWP can more than repay your entire seed corn cost!

ORDER KINGSCROST NOW

You'll want high-yielding Kingscrost in your fields next year. So talk soon with your Northrup King dealer or his salesman. In Iowa, you have 10 different Kingscrost hybrids to choose from. Be sure to ask about the Kingscrost varieties described at the left. Plan now to get more from every acre with Kingscrost.

Get more from every acre with products of **NORTHRUP KING FARM SEED RESEARCH**

KINGSCROST

NORTHRUP, KING & CO.

Minneapolis, Minn. • Madison, Wis. • Rochelle, Ill. Waterloo, Iowa

NK

Omaha to feature 2 BIG STOCKER & FEEDER DAYS . . . each week!

IN THE INTEREST OF ORDERLY MARKETING, during the western run, the Omaha Live Stock Market will feature stocker and feeder cattle on **THURSDAYS** as well as on **MONDAYS.**

THIS EXTRA MAJOR MARKET DAY will afford the ever-increasing number of buyers from the Corn Belt a better opportunity to buy the kind of cattle they want.

OMAHA . . . GATEWAY TO THE CORN BELT . . . is the natural meeting place for western producers and Corn Belt feeders. Each year, more and more livestock feeders are turning to Omaha for their replacements because they find a broader selection of top quality cattle.

COME TO OMAHA FOR YOUR STOCKERS & FEEDERS

World's LARGEST Cattle Market and Meat-Packing Center

UNION STOCK YARDS COMPANY of OMAHA

GET THIS FREE BOOK

On PROFITABLE Feeding Programs For All Livestock and Poultry!

Find out how you can cut feeding costs and make more money! Send for this new feeding book today! You'll learn about tested and proved feeding programs which are set up so you can figure your costs quickly. You'll read about new remedies for the treatment of common livestock and poultry diseases. From cover to cover, this new book is packed full of vital feeding tips and valuable information. It will pay you to write for your free copy today!

WE NEED MEN!

Every day more and more farmers are switching to KIDMAN'S. To help us handle our constantly increasing sales and expanding business, we urgently need reputable men for full or part-time work.

SELL KIDMAN FEEDS!

You'll make money selling KIDMAN'S . . . your customers will save money feeding KIDMAN'S. Learn how you can become a KIDMAN Representative. Mail coupon today for FREE details on fast-selling KIDMAN'S!

FEED KIDMAN'S . . .
A Quality Name in Feeding For Over 65 Years!

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Rush me my new free book.

Name .....

Post office .....

RFD..... State.....

☐ Check here if you want to become a Kidman Representative.

Calves like those in upper photo are usually weaned as they are shipped from the range. Long ride from range to farm can lower resistance to disease, even in heavy cattle like those in lower photo. Farm grains are new feed to most range cattle. With a chance to adjust, they will do better later on.

Fast start for feeder cattle

Here are some things you can do to help feeder cattle adjust to farm conditions

WANT to start your feeders fast? There are things you can do to help them adjust quickly to your farm conditions.

John Menefee of Guthrie county, Iowa, says, "The way I handle new cattle depends partly on whether they are calves or yearlings."

"For yearlings, I feed only hay and a few oats. And I keep them in a closed lot with plenty of water for the first few days," he adds. "Water and rest are the big things they need before going into the stalk fields."

"But calves need more care," declares Menefee. "You have to wean them, as well as adjust them to new surroundings. Like yearlings, I start them off with a few oats and a little hay. And I watch them closely. They are more likely to be tired after the trip from the range."

Carl Pennings of Sioux county, Iowa, agrees.

"If cattle are tired, give them rest, roughage and maybe limited feed," says Pennings. "I think the best feed is something like that they have been used to. Of course, plenty of water is a necessity."

"With local cattle, you won't have to be so careful," he figures. "Chances are, the change isn't so great for them. And they won't have had a long trip in from the range."

Pennings agrees that calves need extra care. Especially in cold weather when they have been shipped for quite a distance.

Pennings likes to get feeders started on some silage soon after he gets them. He places bunks for silage close to temporary upright silos to save handling.

In general, specialists agree. Here's what Iowa State College beef specialists think you can do to give your feeders the best chance:

1. Isolate new cattle for several days before letting them contact your own herd. They can pick up disease either during shipment or in cattle yards.

Even shipping fever is contagious. If signs of disease appear, keep cattle in isolation and treat the disease. Better have your veterinarian check any disease symptoms.

2. Keep cattle as comfortable as possible while they are being shipped. Dry bedding helps. Protection from cold winds and rain or snow is important, too. If truck shipment covers a long distance, provide a rest period. Unload cattle and give feed and water during the break.

3. Perhaps you can arrange to buy cattle during periods of settled weather. Long range forecasts can be helpful in this.

4. Keep new cattle in a lot that has protection from the wind. But don't shut them inside. They need plenty of fresh air. Chances are they had been out in the open, but free to seek shelter from the wind, before you got them.

5. Feed them lightly. Best roughage for first feedings is mixed hay or straw. Plenty of water and salt should be available, too. Better leave the concentrates—grain—out for a little while.

6. Let cattle rest for several days. This gives them a chance to adjust to new surroundings and different feeds.

Not all of these things are always under your control. But do the best you can with factors that you do have a hand in. It will pay off in quicker adjustment to farm conditions.

Farm News Briefs

FIRST TWO IOWA swine herds to win "health certified" ratings were herds owned by Dr. J. M. Jones, Milford, and C. W. Smith, Mount Vernon. To qualify under the Iowa Swine Health program, herds have to be certified brucellosis-controlled and must pass two consecutive herd inspections by veterinarians not otherwise connected with the herd.

▾ ▾ ▾

NEW DIRECTORS of the Iowa Institute of Cooperation are Hade DeVore of Corning and Clarence Biederman of Osage. They were elected at the annual Institute session at Iowa State College earlier this month. Ralph Olson of Ellsworth and Byron B. Cory of Mount Pleasant were reelected as directors.

▾ ▾ ▾

IOWA DAIRY farmers and technicians will meet September 9 for their annual Cow Conference at Iowa State College. Principal speaker will be Gus Bohstedt, head of the animal husbandry department at the University of Wisconsin. Other features will include forages, breeding, feeding, and presentation of the 1955 Meritorious Proved Sire Awards by Wallaces' Farmer and Iowa Homestead.

▾ ▾ ▾

PROBLEMS of one of Iowa's biggest farm income producers—the pork industry—will be tackled at a Pork Clinic set up by the Iowa Farm Bureau Federation for September 22. Farmers, packers, retailers, and consumers will be represented on the program, says H. S. Nicol, director of the IFBF's livestock department. On the program are Herb Pike, Whiting, Iowa, farmer; Carroll Plager, Hormel Packing Company, Austin, Minn.; Leslie Johnson, Iowa State College, and others.

▾ ▾ ▾

COMING EVENTS: Iowa State Fair, Des Moines, August 27-September 5; Minnesota State Fair, St. Paul, August 27-September 5; American Soybean Association Meeting, Cincinnati, Ohio, August 30-31; Cow Conference, Iowa State College, September 9; Soil Conservation Society of America Annual Meeting, Green Lake, Wisc., September 12-14; Iowa Farm Bureau Pork Clinic, Des Moines, September 22; Chicago Feeder Cattle Shows, September 22-23, October 13-14, and October 27-28.

"Fair thru the 31st . . . Rain on the 1st and 15th . . . Temperature readings . . ."

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See Our Exhibit at Waterloo and Spencer

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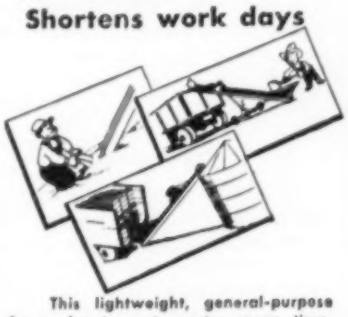
Shortens work days



This lightweight, general-purpose farm elevator cuts costs, saves time, makes many hard jobs easy: 1. Elevates grain, feed, ear corn, cotton seed, nuts, vegetables and many other farm products. 2. Feeds hammermills. 3. Handles bales. 4. Cleans your poultryhouse. 5. Loads your trucks. 6. Empties bins, cribs, trench silos. Ask your dealer or write direct for complete details and free literature.

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Here's the famous Brady Wagon that you can pull any place you can drive your tractor. It's rugged in the field . . . fast on the highway.

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LOW COST of this sensational new Brady Hay and Forage Chopper means you make extra profits from your crops. Saves time and labor because one man can operate with tractor and trailing wagon and harvest a whole field by himself . . . whether crop is standing or windrowed.

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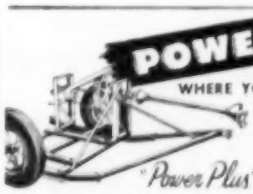

Farmers, Grind or Shell ANYWHERE with this BRADY "Power Plus" DRIVE

You save time, save work, save money with this low-cost Brady "Power Plus" Drive. It's trailer mounted. Lets you pull shellers and hammermills right to the job.

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THE BRADY "26"

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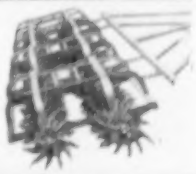

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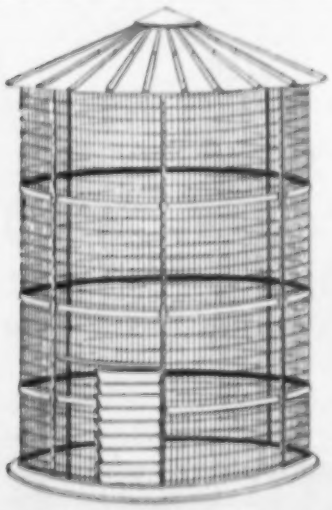

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Out of the files . . .

Has anything changed?

Seconds, anyone?

MY PICNIC menu suggestion: Cold sliced ham, pressed chicken, salt pork and green beans, fried cabbage, stewed turnips, pickled apples, pickled beets, wheat bread, corn bread, coffee, lemonade, cocoanut cake, apple pie, squash pie, canned peaches, watermelons. — Bittersweet, Iowa Homestead, 1890.

Watch her, too!

It makes no difference, Forgetmenot, what color a boy's eyes are, but if you wish to know which boy will make a model husband, just observe how he treats his mother.—Iowa Homestead, June 20, 1890.

Feed young stock

We have taken pains for several years to bring our readers to see that the profit in feeding is made on the younger animals. We have been quite well aware that this is not the popular view, that the farmer is convinced that the three-year-old steer is a more profitable feeder than the two-year-old and that the pig weighing 200 lbs. is just ready to take on fat rapidly and with profit.—Iowa Homestead, Jan. 10, 1890.

Overproduction

All this talk about over-production is pure rot . . . It is not overproduction that is the matter with the farmer but the fact that the farmer is about the only man that is in competition. Nearly everything else is in combination.—Iowa Homestead, Jan. 10, 1890.

Swindlers

There are always some parties going around over the country with something new, deceiving the farmers. Of course a great many people are ready and willing to bite at anything new whenever it is presented by a sharp sleek-tongued person. Not long ago there were three of these fellows dropped into this neighborhood selling groceries to the farmers . . . We take the goods home and examine them and find them inferior. After these men deliver their goods at one station, they leave for some other point to swindle another lot of farmers. E. C. Hewitt, Delta, Iowa.—Iowa Homestead, Oct. 31, 1890.

"I don't know why some folks say it's hard for a farmer to meet expenses. I meet them everywhere."

Too Much Salt For Cattle?

by Henry Arthur

THE CALIFORNIA EXPERIMENT STATION has been studying the effects of feeding high levels of salt to cattle and sheep. As a result of these and other studies it is now common practice to regulate the use of protein supplements on the range by the use of salt—and in some cases to regulate total concentrate intake.

To study the effect of a high salt intake on cattle, the California workers fed a pelleted ration composed of 35% alfalfa hay, 15% oat hay, 35% barley and 15% dried molasses-beet pulp. To this ration they added 10% salt for one group of steers and another group of steers was allowed to eat as much or as little salt as they wanted. On these pelleted rations the cattle chewed on the board fences. This problem was solved by feeding 1 lb. of oat hay in addition to the pelleted ration. This reduced the salt intake of the high salt lot to 9.33%.

These are the results after 84 days of feeding:

Ration Fed	Basal Ration	9.33% Salt
No. of steers	14	14
Av. initial wt. lb.	815	814
Av. daily gain, lb.	1.56	1.56
Av. daily feed, lb.		
Basal ration	17.5	16.8
Salt		1.7
Feed per 100 lbs. gain, lb.	1122	1078
Daily water consumption, lb.	110	166

This study shows that a high salt intake by fattening cattle has no serious effect on average daily gain or on the feed requirement per lb. of gain. The high salt intake did not affect dressing per cent either, though it may have decreased carcass grade somewhat.

Obviously the ration fed was not a high energy type of ration such as is commonly used in the corn belt. A good corn belt ration would have included more grain and some Minnesota 36% Linseed Meal. My free booklet on *Home Mixed Rations* gives complete formulas.

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Day by day

Fair schedule

Saturday, Aug. 27

Opening day . . . . Children's day . . . . Stripped stock car races (Jalopy), afternoon . . . . Musical revue, evening.

Sunday, Aug. 28

Big car races, afternoon . . . . Musical revue, evening . . . . Sheep shearing contest . . . . Sheep dog trials.

Monday, Aug. 29

Big car races, afternoon . . . . Musical revue, evening . . . . Checker tournament . . . . Team pulling contest . . . . Open class cattle, swine and sheep judging.

Tuesday, Aug. 30

Harness and running races, afternoon . . . . Musical revue, evening . . . . Open class cattle, swine and sheep judging . . . . Checker tournament . . . . Team pulling contest . . . . 4-H livestock judging contest.

Wednesday, Aug. 31

Harness and running races, afternoon . . . . Musical revue, evening . . . . Horse show, evening . . . . Open class cattle, swine and sheep judging . . . . Team pulling contest.

Thursday, Sept. 1

Thrill day program, afternoon . . . . Musical revue, evening . . . . Horse show, evening . . . . Shorthorn and Polled Shorthorn National Show . . . . 4-H crops identification and judging contest.

Friday, Sept. 2

Gene Autry and Rodeo Cowboys' Association contest rodeo, afternoon . . . . Big car races, evening . . . . Horse show, evening . . . . Horseshoe pitching tournament . . . . Old Fiddlers' contest . . . . 4-H and FFA beef heifer, dairy heifer, purebred swine and purebred lamb judging . . . . 4-H colt and FFA market litter judging.

Saturday, Sept. 3

Gene Autry and Rodeo Cowboys' Association contest rodeo, afternoon and evening . . . . Horse show, evening . . . . Horseshoe pitching tournament . . . . Open class, 4-H and FFA market swine and fat lamb judging . . . . 4-H baby beef judging . . . Children's Day.

Sunday, Sept. 4

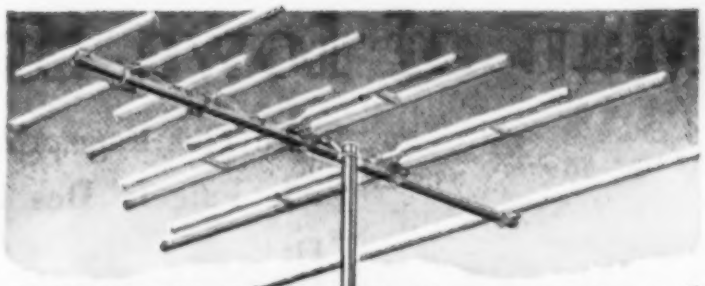
Gene Autry and Rodeo Cowboys' Association contest rodeo, afternoon . . . . 100-mile stock car marathon, evening . . . . Horse show . . . Horseshoe pitching tournament.

Monday, Sept. 5

Gene Autry and Rodeo Cowboys' Association contest rodeo, afternoon . . . . Big car races, evening . . . . Horse show, evening . . . . Horseshoe pitching tournament . . . . Market barrow and fat lamb sale.

Every day

Midway attractions . . . . Fireworks . . . . Dancing each night . . . . Farm machinery . . . . 4-H and FFA exhibits . . . Culinary, textile and rural family living exhibits.



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Before you buy any SEED OATS . . . get hold of us or our representative first and learn ALL the facts. We have a great variety of SEED OATS that'll fit **any** soil, **any** locality . . . and at a price you'll want to pay.

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Map of Iowa State Fair grounds

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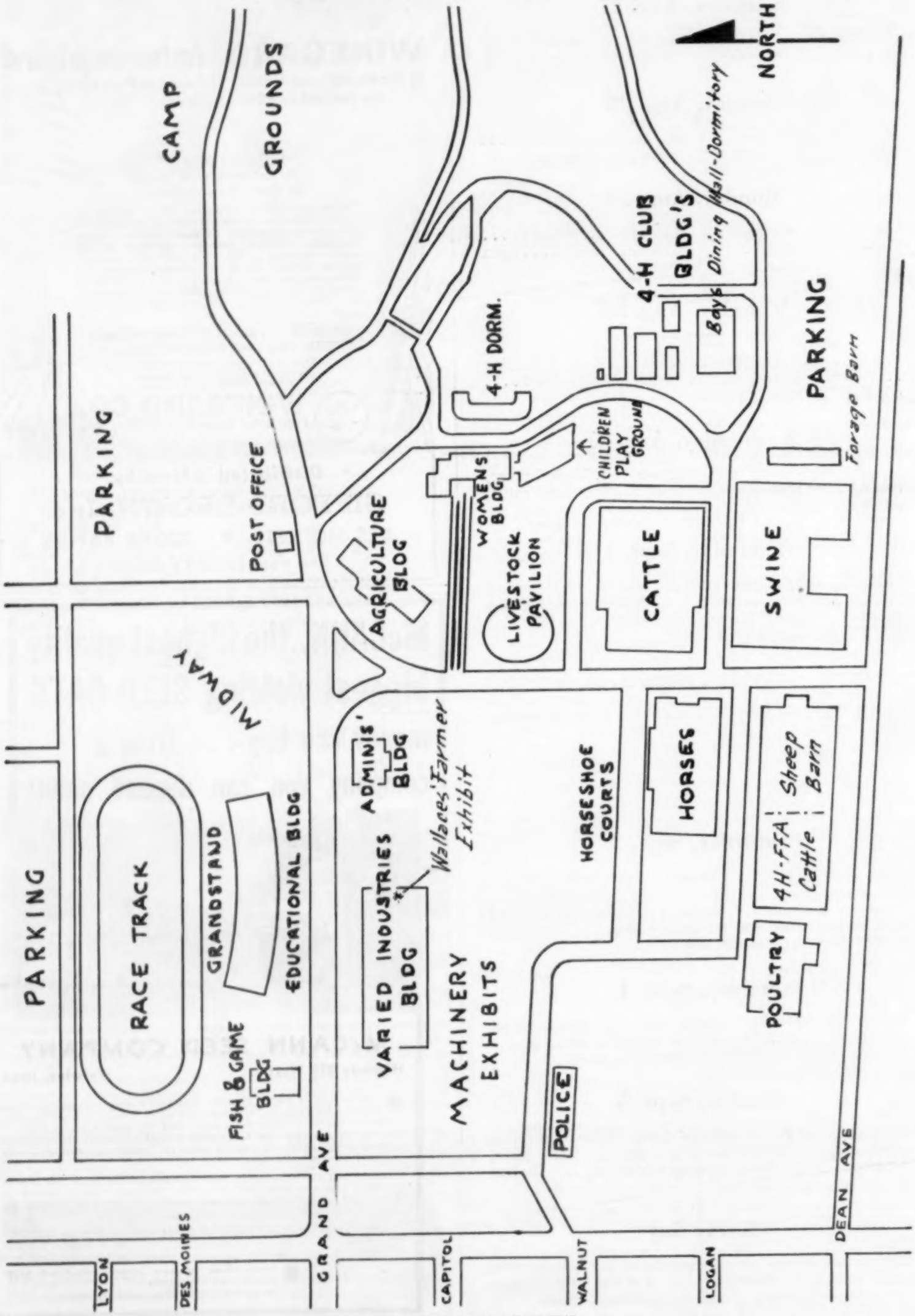

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EXCLUSIVE
IOWA DISTRIBUTORS FOR
GANDY SPREADERS AND SEEDERS

Plan to paint this year?

IF YOUR house or barn or chicken house or hog house are starting to look a little shabby, if paint is peeling and the siding is showing thru, you should remember the investment you have in those buildings.

Your first important decision when painting is what kind of paint to buy. Here the answer is easy—good paint, because cheap paints are expensive in the long run. And a cheap job looks cheap.

House paints should carry 60 to 65 percent of high grade pigment, such as lead carbonate, lead sulphate, zinc oxide or titanium dioxide. Any good house paint you buy should contain at least two of these.

Besides these prime pigments, small amounts of whiting may be used. Non-fading dry paint film is improved by whiting, painters say.

Today, one coat of paint, over a primer, often gives you a lasting job. This is quite different from the plan years ago, when two or even three coats were sometimes needed for finishing.

Most dealers now carry one-coat paints in stock that can give surface coverage for most siding. Higher bodied paints using greater amounts of more opaque white pigments have made it possible to get better coverage per coat of paint put on.

New wood or worn spots on siding must be given a priming coat, of course, before you plan on a one-coat job.

However you can scarcely expect a one-coat job to last as long as two coats. Don't thin down paint you use for a one-coat application. These paints cost a little more than do two-coat paints, but work well when properly mixed and applied.

Barn paints, so called, are pigments containing iron oxide. This red type is quite durable if you don't use too much filler. Venetian red may be satisfactory if it carries as much as 25 percent of the iron oxide. Some brands of Venetian may contain much less of the oxide. They are cheaper, but won't stand up against weather.

Use paint removers where old paint is loose, cracked or blistered.

You may already have wire brush, scraper and other tools to work old weathered surfaces down so as to take a smooth finish. Use a good quality paint brush. Cheap brushes shed bristles.

Cracks, nail holes, and the like should be puttied. But put on the priming coat before puttying. Window putty may be loose. If so, scrape off old putty, paint sash with a thin coat, then reputty.

Don't paint outside walls or woodwork if the day is damp or such surfaces moist. Fair weather is the time to paint. You can't get the best job if surface is damp.

SOMEONE told me that certain people won't eat rice because it reminds them of a big mistake in their lives.—Manning Monitor.

O.K. Rubber Welders

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Tractor tire repairing our specialty. See your O.K. man in any of the following towns for complete service:

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It's more sanitary to milk with a National DeLuxe Milker because there are no valves between the cow and the pail. No valves to collect milk particles that are hard to clean out. Also, the transparent pails with stainless steel lids are easier to clean. Yes, your bacteria count will really drop when you start using a NATIONAL DELUXE MILKER

HERE ARE OTHER EXTRA ADVANTAGES OF A NATIONAL DELUXE MILKER . . .

- FASTER — Adjustable vacuum and constant speed pulsations for faster milking.
- SAFER — Visible, easily adjusted vacuum gauge to suit each individual cow. Transparent pails let you see when cow is milked.
- EASIER TO USE — Only teat cups are carried to cow. No installation expense and lower initial cost.

Visit your local Gamble Store or write for more information

POWER-SAVER PUMP GIVES YOU RUNNING WATER IN EVERY BUILDING

Counter-Balanced Twin Cylinders Raise More Water With Less Power

Regardless of well depth, smooth balanced operation is assured, as the weight of each rod connection is offset by equal weight of the other. You get more water pressure at every faucet on your farm, at tremendous savings in power cost with this patented Power-Saver pump.

For more information about the POWER-SAVER PUMP see your local dealer or write.

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Congratulations

to Wallaces' Farmer and Iowa Homestead

HOEVEN

I WANT to congratulate your organization on a century of fine journalism and public service . . . Your articles on new agricultural methods and research have encouraged good farming practices among your subscribers . . .

As a member of the committee on agriculture of the house of representatives, it is essential that I keep in close contact with farmer opinion at the grass roots. The copies of Wallaces' Farmer and Iowa Homestead which come to my office regularly aid me in doing this.

Many times I have passed your editorials and articles along to my colleagues on the committee.

May Wallaces' Farmer and Iowa Homestead continue to serve the farmers of Iowa and the midwest with the same spirit and dignity.—**Charles B. Hoeven,** Member of Congress, Iowa.

IT HAS been my good fortune to be a subscriber of yours since 1917—just a couple of years short of forty. Your paper has been of invaluable help to me both in my farm operations—for I am a dirt farmer—and in my earnest service to agriculture here at Washington . . .

Its service has been a very practical one. It has dealt not only with fundamental principles but with the every day problems which beset every farmer and every farm program . . .

It has improved with the years until today it is one of the most effective aids to farm management and farm living in the great Mississippi valley.—**Clarence Cannon,** Member of Congress, Missouri.

HILL

WALLACES' Farmer has been in our home as long as I can remember. In fact, my first impression of your magazine came from my father's reading aloud the Sabbath School lessons you once carried. In the years since, I've used the magazine as a standard source of information as I operated my farm.

Wallaces' Farmer and Iowa Homestead has grown along with Iowa agriculture. It has become an integral part of the whole institution of farming in this part of the country.

I congratulate you on your first hundred years of service to agriculture . . . May the contributions you have made be only a beginning to your service to agriculture's progress thru the years.—**E. Howard Hill,** President, Iowa Farm Bureau Federation.

AS LONG as I can remember, Wallaces' Farmer and the Iowa Homestead have been in our home.

Over the years, Wallaces' Farmer and Iowa Homestead has been a major contributor to advancement of new ideas in agricultural production and better farm living.

I've been impressed also by the editorial policy thru the years. As I think back over this period of more than half a century, many challenging ideas have been presented. Certainly in a number of instances, these ideas have been forerunners of state and national legislation of benefit to farmers.

At times a great deal of editorial courage has been required to take a firm stand on controversial issues—and Iowa's state farm paper has not been found lacking.—**Oscar Heline,** President, Iowa Farmer Grain Dealers Association.

More good wishes

MURRAY

WALLACES' Farmer and Iowa Homestead is as much an Iowa institution as corn and hogs or the Iowa state fair We just accept it and depend on it for more than we realize.

Three contributions of this intellectually stimulating farm magazine stand out. First, it has a long and enviable record of independent editorial comment on farm problems. It is responsible, in no small measure, for the active participation of many Iowa farmers and farm leaders in national agricultural affairs . . .

Second, we are indebted to the magazine for its vigorous promotion of new ideas and new techniques, including excellent tests on subscriber reading and understanding. Down thru the years, this magazine has been a great ally of Iowa State College, prodding the faculty to make available the results of its researches and explaining these results to readers.

Third, one cannot escape the realization that this magazine has stood for high moral values—for an agriculture of integrity where the farm families have an appreciation of spiritual values as well as the making of money.—**William G. Murray,** Head, Department of Economics and Sociology Iowa State College.

EVANS

THERE is a monument near where I live that marks the spot where an Indian massacre took place in 1857. At that time, your paper was already in existence, serving Iowa and the nation's agriculture. You have seen and participated in the change from a prairie state on the edge of civilization to the most productive spot on earth.

When I first became involved in national farm policies, I was amazed to find the reverence and respect your paper commanded . . .

You were genuinely interested in agriculture. It was not an acquired interest—it was inherent in the body and fabric of your paper.

You can never know how many times you have helped farmers in their fight for economic salvation. You have performed as a real champion always does—best when the chips are down.—**R. M. (Spike) Evans,** Former Administrator AAA and former member of Federal Reserve Board.

CLEAR thinking is basic to good living, and good farming is the obvious result. Wallaces' Farmer and Iowa Homestead has guided many in clear thinking. It has shown what good living consists of and it has aided tillers of the soil in good farming.

Your 100 years have given you a good start. May the next 100 be as fruitful of good as the past 100 have been, for God, our homes and our fields. This is my prayer and my wish.—**Monsignor L. G. Ligutti,** Executive Director, Catholic Rural Life Conference.

AS ONE of your long-time readers, I wish to express my congratulations to the entire staff for a century of progressive, constructive and positive influence on human lives, as well as upon the agriculture and the economic well-being of our state and nation.

Thru the years, Wallaces' Farmer and Iowa Homestead, at first in single harness and then in double harness, has contributed inspiration as well as information to . . . its readers.

As one who has spent half a century in agricultural education and research, I am especially appreciative of the interest, intelligent cooperation and encouragement your publication has given to our programs of research, resident teaching and extension education.—**H. H. Kildee,** Dean Emeritus, Iowa State College.

LOOK WHAT YOU GET!

New rugged derrick design • New "EZ-up" safety winch • New shock absorber "spring" ride • New combination hay chute and grain hopper • New Power take-off drive • New Expandability • America's Quality Elevator at a *New LOW PRICE.*

Price: F.O.B. Bloomington, Ill.

HERE'S the most sensational news in elevator history. *Expandable* means you can lengthen the Little Giant Elevator you buy up to *maximum length* any time during one whole year *without price penalty*—expanding to a longer unit costs you no more than if you had purchased the longer elevator originally. Mass production and new manufacturing methods permit this unheard-of low price, without sacrificing the Little Giant quality and performance every one recognizes. These new Little Giant Elevators have every advantage you ever wanted . . . All steel electro-galvanized sections—non-rust paint protection on flights and chain—rust-proofed bolts, nuts and hardware—comes complete with PTO drive, heavy double #55 chain with spring steel flights on model Eleven Hundred (#62 steel chain on Big 19)—roller bearing wheels and all new derrick design—new combination hay chute and grain hopper standard equipment. *All Little Giant Elevators carry a full one year guarantee.*

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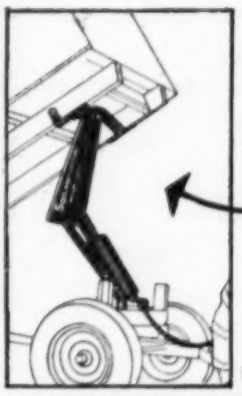

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Exclusive Plated NON-RUSTING SHAFT

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- Will Mount on All Standard Wagons
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SAVE MONEY WITH THE HOIST THAT DOES EVERYTHING

WRITE FOR FREE DESCRIPTIVE DETAILS

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809 Court St. Sioux City, Iowa

AUTO HOE
A NEW TYPE POWER CULTIVATOR THAT HOES

NEW . . . self propelled power driven that hoes between rows and between plants 20 to 30 inches apart. Complete! No extra attachments to buy. Easy to handle with two fingers. Does perfect job in any kind of soil. Write for exciting literature or see us at the State Fair.

Miniowa HYD. LOADERS
FOR MOST ALL ROW CROP TRACTORS

Does more jobs easier because of superior features. Before you buy compare. Snow or volume scoop, dozer blade, sweeprake, stacker attachments available. See your dealer or contact us. Better still . . . see us at the State Fair.

MANUFACTURERS ASSOCIATES, INC.
PERRY, IOWA

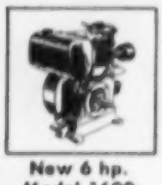
CLINTON CHAINSAWS

Your CLINTON dealer will furnish the saw and the fuel

Has the big chainsaw features. A full weight tool—not a toy. Special diaphragm fuel pump! You cut from any position. New on-off switch for complete power control. Belt drive! A complete family of Clinton Chainsaws for you to choose from. Clinton Engine Replacement Plan lets you change power units for only $94.50. Service everywhere. Mail for giant 3-color folder. See your Clinton Dealer for free tryout.

No. CS525 — now only $259.50 without guide bar and chain FOB CLINTON, MICH.

QUICK STARTING CLINTON GASOLINE ENGINES



New 6 hp. Model 1600

New 9 hp. Model 2500

1 to 9 horsepower! 14 models to choose from including the new 19 pound, 4 cycle engine. Powerful! Low-Cost! Over 4000 Clinton Service Centers nationwide.

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Everett's Magneto and Carburetor
121 No. First
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Hurley Air-Cooled Engine Parts and Service
610 E. Main Street
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Batcheller's Farm Store
801-5 Grand Ave.
Sioux City, Iowa

Central Battery and Electric
313 W. 5th
Waterloo, Iowa

Distributed in Iowa by Lally's, Inc.
12th and Mulberry, Des Moines

Save steps at State Fair

THE Iowa State Fair is loads of fun. But let's face it: Your feet can get mighty tired. Especially when there are so many things you want to see.

You can save time and steps too if you take a little time to plan your stay at the State Fair.

First, check the day-by-day Fair schedule on page 123. Pick out the days you like best.

Take that page with you to the Fair, because on the other side you'll find a map of the fair grounds. Or if you leave home without it, stop at the Wallace-Homestead booth at the east end of the Varied Industries building (Machinery Row to you old-timers). We'll give you a map.

With a map to locate the interesting places and helpful people in charge at the Wallace-Homestead booth to answer questions, you make your stay at the fair easier on your feet and more enjoyable for you.

General admission for adults at the Iowa State Fair is 50 cents. Children under 12 years of age are admitted free. And on children's day, those under 16 will be admitted free. Passenger automobiles, 50 cents; free after 6:00 p. m.

A baby-sitting service is available in the State Fair Women and Children's Building. It will be open until 11:30 at night. Practical nurses will be in attendance to care for and entertain the children. A reasonable fee will be charged for this service.

The Iowa State Fair will maintain an emergency hospital, check room, post office substation, and an express office.

The Varied Industries Building will be open to the public from 8:00 a. m. until 6:00 p. m. each day of the State Fair.

4-H Club members participating in the 4-H Club agricultural project department of the State Fair will be furnished free a special 4-H club T-shirt.

The annual baby beef auction sale will be held at the Iowa State Fair Monday, September 5, at 8:00 a. m., in the sale ring in the open class cattle barn.

SAVES SCOOPING TONS OF FEED

Take grinder to the feed—not the feed to the grinder. Handle feed only once—from crib to grinder to truck—cut grinding time and work *one-half*. Get away from feed dust, around the mill and in the feed. For MORE PROFITABLE feed preparation use a Letz—the slow-speed, cutting-type grinder that granulates or cracks for ruminants or pulverizes for pigs or poultry. New swivel-head puts feed where wanted. With PTO drive, new Letz mills in three sizes, grind feed FAST and better.

GRINDER SPECIALISTS FOR 70 YEARS

Better all around performance, continuously developed since 1884. Used by leading feeders and dairymen everywhere. Ask your John Deere dealer for a demonstration.

LETZ MFG. CO., 833 N St., Crown Point, Ind.

ADD HUNDREDS OF DOLLARS TO YOUR INCOME THIS YEAR

HERE'S HOW! Right now! Send a 2¢ postcard or coupon below. Get full details on how an all-steel C & L Buckeye Corn Crib can actually add big extra profits to your income. Owners report Buckeye Cribs pay for themselves and *more* in one season.

Offer below is not a "come-on"—no strings attached . . . no obligation. It's the one way you can see for yourself why Buckeye Cribs are better—why they mean more profits—how easy they are to buy—why *you* need one *now!*

BUCKEYE CORN CRIBS
Clayton & Lambert Mfg. Co.
1017a Lamneck Street • Middletown, Ohio

MAIL THIS TODAY!

Gentlemen:
Please send free information on C & L Buckeye Corn Cribs.

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PUT SOME OF THAT EXTRA CASH INTO SAVINGS BONDS

The Easy Way to Save

Start Buying Today!

UNLOADS WAGONS FASTER!

FULLER hydraulic wagon dump

Dumps wagons quickly . . . easily. Goes higher . . . Lifts front of wagon box up to 8½ ft. from ground. Requires ¼ fewer strokes than ordinary, slower dumps. Fuller Hydraulic jack easily removed for other uses. Easy to set in place and operate.

See Your Dealer or Write
FULLER Manufacturing Company
DEPT. 1354, CENTERVILLE, IOWA

SEE THE NEW *LENNOX* BATCH DRYING BIN AT THE IOWA STATE FAIR—LOTS 39 THROUGH 47, BLOCK "I".

(See Ad on Page 84)

"It's really simple. My Dad taught me when I was a little boy."

A-Alley crib on the Meredith Shriver farm, Greene county, Iowa, is suitable for either natural or forced air drying. Solid wall across middle permits dryer operation in one-half of capacity while filling or emptying the other half.

New housing for corn crop

Now is the time to study plans if you will need additional crib or bin space

IF YOU will be needing extra corn storage space this fall, it is time to decide on the type of crib or bin you want. Carpenters, if needed, may be hard to line up later on. Some materials, especially cement, may be in limited supply.

Probably the first question to settle is whether to put up a permanent building or something temporary? And should it be a bin for shelled corn or a crib? Should it be suitable for forced drying? Would a structure wanted eventually for another purpose, such as a garage, fill the bill?

Still another question is whether to buy material for complete construction at the site or choose pre-fabricated units that only need to be fastened together and provided with some sort of foundation.

In any case, farmers this year will have a wide variety of designs from which to choose.

As a help in coming to a decision, have a look at the catalog of 30-odd grain storage building plans developed by agricultural engineers of the midwest colleges. This catalog can be seen at your county extension director's office, ASC office and at many local lumber dealers.

In particular, notice the plan for the new A-alley crib (see cut above). It has 2x10 inch outside studs, securely anchored at the bottoms, thus eliminating need for cross braces.

A solid partition across the middle adds structural strength. Ends are tightly sided to insure even distribution of air in forced drying.

This catalog also includes plans for convertible storage buildings such as hog houses, movable hog self-feeders, garages and machine sheds. Most building material suppliers also have reference leaflets put out by private firms.

Regarding costs, bins generally can be put up for about one-half as much per bushel stored as for a crib of similar durability.

A large capacity structure also will cost substantially less per bushel than a small one. A 5,000-bushel crib or bin usually involves only about one-half as much investment per bushel as a 1,000-bushel size.

No matter what kind of storage is put up, it should have (1) a good foundation, safe from settling and drainage water, (2) adequate braces and anchors to resist wind damage when empty, (3) sound roofing to protect against weather and (4) proper size and arrangement of openings to permit adequate ventilation.

For permanent frame cribs, foundations should go down at least 18 inches below the ground surface. A bottom surface area of at least one square foot for each 40 bushels of stored corn is considered essential. For permanent bins, the ratio should be one square foot for each 50 bushels.

Where artificial drying is to be followed, it is important to construct so that distance of air travel to the outside surface will be the same in all directions from the inlet source.

Remember that you can get a loan at four percent interest covering up to 80 percent of the cost of corn storage and repayable in four annual installments.

Furthermore, under federal rulings, you can depreciate the cost of this storage over the short period of five years. And if the structure is used to reseal corn for another 12 months, you can earn 15 cents per bushel. Local ASC offices have the details.

Now

GREATER CORN

from Combined Research

• of 3 COMPANIES

"TOMCO"

is the symbol of the combined research efforts of Tomahawk, Clarke and Carlson.

The results of Tomco Research are evaluated by Elmer G. Carlson, R. B. (Rich) Thompson and Hugh Clarke (pictured from left to right above).

"Farm-reared" best describes all three of the above named men. Each farmed and started seed corn selections dating back to the twenties. Each built his own seed business slowly and soundly by giving his customers a dependable product.

C. E. (Chuck) Wilmarth, pictured below, and a farm-reared corn scientist associated with the above men since 1943, heads the combined corn research symbolized by "TOMCO." He heads a corn breeding and testing program that involves plots from Pennsylvania to California and from Canada to Florida. A winter research plot in Southern Florida doubles the speed of getting new varieties to you.

This unparalleled background forming the foundation for TOMCO Research, plus the modern plant breeding methods, makes the word TOMCO a meaningful symbol to you. It symbolizes, too, our pledge to you: To provide you seed corn "that will give you **all** your soil and the season can produce!"

ASK YOUR LOCAL DEALER FOR "TOMCO-BRED" SEED CORN

TOMAHAWK

HYBRID CORN CO.

Distributors of Tomahawk-Clarke-Carlson Seed Corn

BELMOND, IOWA

Oliver No. 4 Two-Row Mounted Corn Picker.

Ask to see the 14 BIG REASONS why an Oliver Picker is your best buy

You can see a demonstration like you never saw before—right now—at your Oliver dealer's.

He won't give you a lot of generalities or opinions. He'll actually *show* you, point by point, why a new Oliver Picker will outwork—and outlast—any other picker you can buy. He'll explain the *14 outstanding features* that put these Olivers heads and shoulders over the rest.

We won't list the 14 features here. Only say that Oliver alone can offer all of them to you. And that every single feature works to give you higher output . . . or save your time . . . or see that you don't get hurt. Indeed, safety engineers call one of them "the greatest safety feature on a corn picker since the Independently Controlled PTO" (another Oliver first).

But ask to see all 14. Look at some other pickers first, if you wish. You'll be more convinced than ever when you see this demonstration—*an Oliver Picker is the one for you.*

The Oliver Corporation, 400 West Madison Street, Chicago 6, Illinois.

OLIVER

"FINEST IN FARM MACHINERY"

OLIVER NO. 3 TWO-ROW PICKER. For those who prefer the pull type. Same high capacity . . . same long life . . . same exclusive Oliver safety features.

OLIVER NO. 6 ONE-ROW PICKER. Semi-mounted, on three-point hitch. Combines easy handling of mounted picker, easy on-and-off of the pull type.

OLIVER NO. 5 PICKER. Pull type, single row. Ideal for smaller acreages. A real performer teamed with Oliver's Independently Controlled PTO.

Free help on social security

Do you have a social security problem? Would you like to talk it over with a representative from the Social Security Administration?

You'll have a chance if you stop by the Wallaces' Farmer and Iowa Homestead booth at the Iowa State Fair. It's located at the east end of the Varied Industries building.

A representative of the Social Security Administration will be there to answer any question you might have. You may also apply for your social security card and register as a farm employer.

Lots of poultry at State Fair

TWO poultry shows are scheduled at the 1955 Iowa State Fair. Poultry is big business in Iowa, and a large number of birds will be entered in the poultry show.

Exhibitors will compete for $9,000 prize money in the poultry show.

The first poultry show will start Saturday, August 27, and will end at 1:30 p. m., August 31. The second show will start September 1, and end at 4:00 p. m., September 5.

In the first show, exhibition poultry, bantams, ducks, geese and turkeys will be received and inspected from 7:00 a. m. to 5:00 p. m. August 25 and 26, and between 7:00 a. m. and 9:00 a. m. on August 27. These entries must be in place in the poultry building before 9:00 a. m., August 27, and remain until 1:30 p. m., August 31.

All other poultry and pigeons will be received and inspected from 5:00 a. m. until 12:00 noon on September 1. These birds must remain on exhibit until 4:00 p. m., September 5.

Dressed turkeys and eggs must be on exhibit by 9:00 a. m., August 27, and remain thruout the fair.

Exhibitors will compete for $891 in the American division; $261 in the Asiatic division; $676 in the Mediterranean division; $410 in the English division, and $609 in the miscellaneous division.

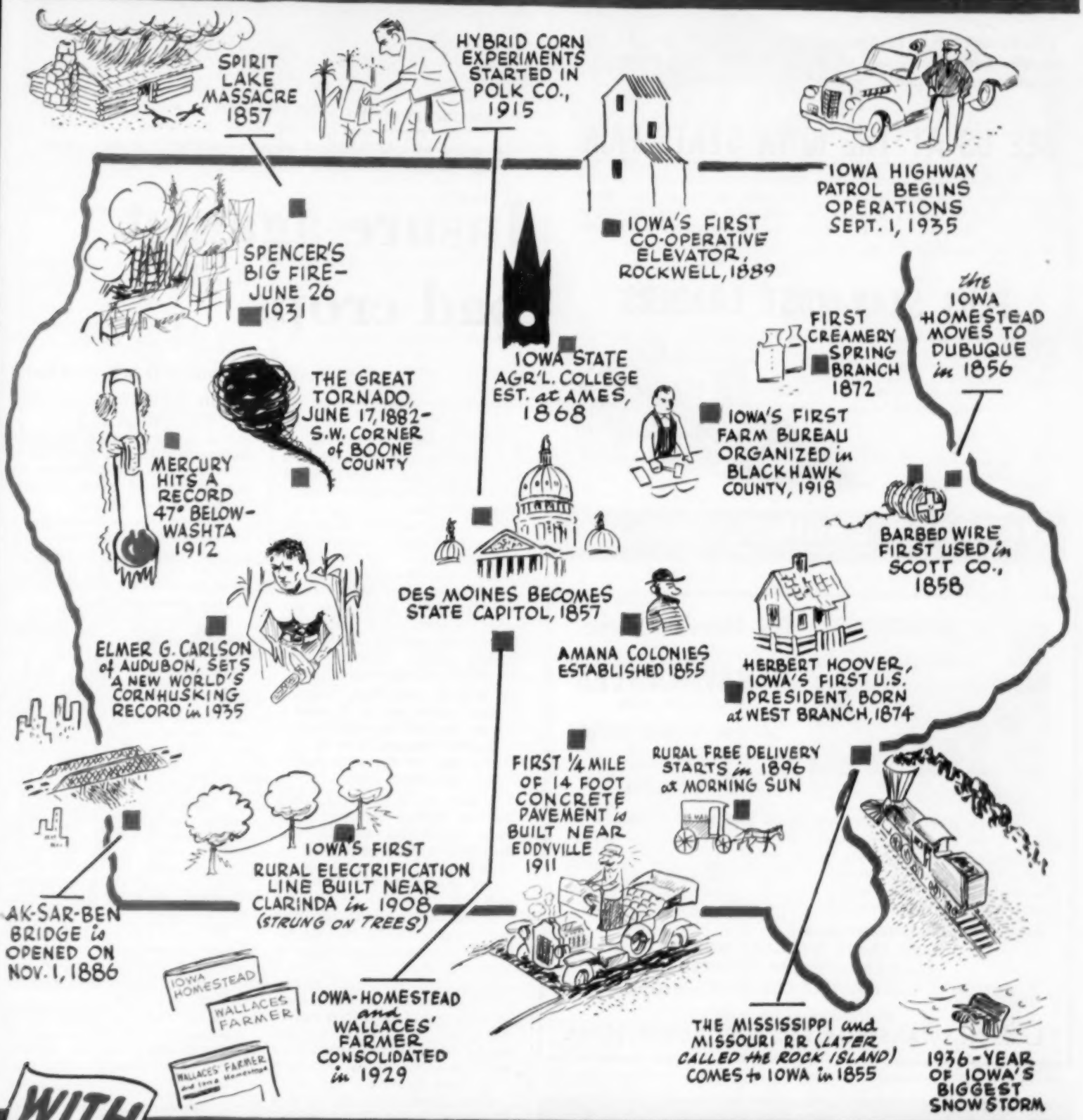
The bantam show will probably be the largest since the bantam exhibitors will compete for $1,387 in prizes.

Duck exhibitors will compete for $512. Geese exhibitors will take home $288 in prize money. Market turkey exhibitors will get $400. But the pigeon fanciers will get $1,000 in prize money.

Production poultry will win $900 for their exhibitors. Live market poultry exhibitors will compete for $1,230 in prizes. Dressed turkey exhibitors will get $136. And market egg exhibitors will take home $300 for their efforts.

DON'T BE too critical of your wife's faults . . . It may be those very defects that kept her from catching a better husband. —La Porte City Progress-Review.

100 YEARS IN IOWA...



WITH

WALLACES' FARMER and Iowa Homestead

by [illegible]

JUST THINK!

I CONTROL IT ALL... RIGHT FROM HERE

STAN-HOIST No. 10 Elevator and Stan-Hoist No. 55 Hydraulic Farm Hoist can all be controlled right from your tractor seat. Eliminate "extras" with Stan-Hoist.

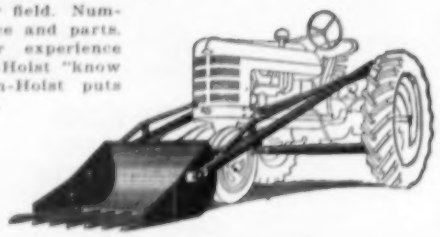
SEE US AT THE IOWA STATE FAIR

. . . and learn more about modern farming with Stan-Hoist quality implements. Designed for low cost and high, efficient service. Saves time, labor and money. Handles your unloading and elevating chores with ease. Stan-Hoist No. 10 elevator, No. 18 Elevator, No. 55 Stan-Hoist and Stan-Hoist Deluxe.

PLUS STAN-HOIST LOADERS

Number one in the loader field. Number one in quality, service and parts. Fifteen years of loader experience can't be duplicated. Stan-Hoist "know how" is important. Stan-Hoist puts the "lift" under the load.

See your dealer: See us at the Fair or write for complete details.



STANDARD ENGINEERING, INC.
FORT DODGE, IOWA

Pictured above is the Strawmaster attached to a Minneapolis Moline combine. Models are available for all popular makes of combines.

It's Harvest Time!
THIS NEW
STRAWMASTER
WILL SOLVE YOUR
Straw Problems
on all types of straw including
Soybean

Models available for both large and small combines

Now is the time when you need the Strawmaster! You return the straw to the soil as valuable humus . . . no more raking . . . no more burning. The Strawmaster shreds the straw and spreads it evenly over the field so that you can plow right after combining. *Please specify make and model of combine when writing for free literature.*

See the Strawmaster Exhibit at:
IOWA STATE FAIR—DES MOINES
CLAY COUNTY FAIR—SPENCER
NATIONAL DAIRY CATTLE CONGRESS—WATERLOO

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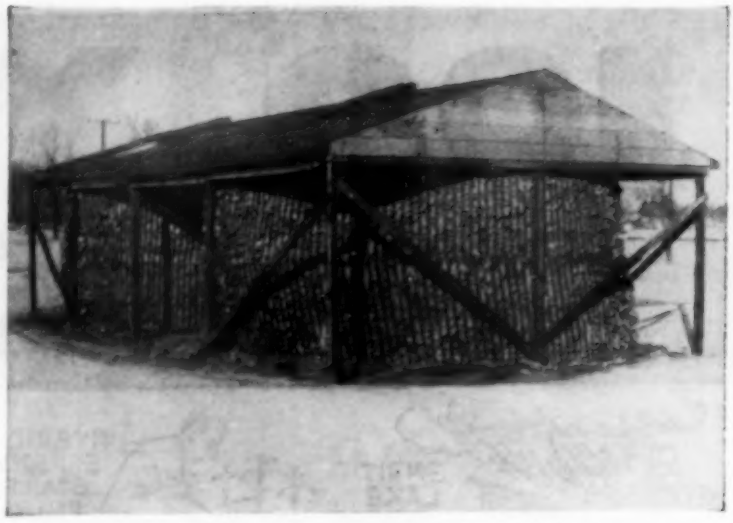
MORTON
FARM BUILDINGS

Pre-cut framework saves erection labor. Provides the most storage space at the lowest cost! Delivered by truck direct from factory to your farm! Save up to $500.00! Don't fail to get our prices before you build. Send postcard today for FREE 16-page catalog!

INTERLOCKING FENCE CO.
Box 1965 Morton, Ill.



Temporary cribs like these can be used to store corn on the farm. But many farmers are thinking of establishing a corn reserve for bad crop years. More permanent cribs are better suited for that purpose.

Insure against bad crops

Government loans will help you hold corn surplus on farm without risk

CORN stored on the farm is good insurance against crop failure, say many older farmers. Many have known years when it was a lifesaver.

Heat and drouth, grasshoppers, corn borers or chinch bugs can strike your new corn crop. There's a threat every year.

This year some farmers will be hurt badly by one or the other of these crop destroyers. Others will escape. Next year, another group of farmers or all will be threatened.

It has been only eight years since the U. S. corn crop was cut one-third by a dry, hot August. The Iowa crop was cut almost in half. Here are some figures.

In 1947, the national corn crop was 2.4 billion bushels. That total was 800,000 bushels less than the 3.2 billion raised in 1946. And 1.2 billion bushels under the 3.6 billion raised in 1948.

So the weather of 1947 cut the corn crop a billion bushels below the average production of 1946 and 1948.

If a year like 1947 should come again, the national corn surplus would be wiped out in one year. But half that much cut in the corn crop would wipe out the corn surplus of many individual farmers.

Corn prices went up over a dollar per bushel after the short crop in 1947. Some farmers were caught short and had to sell livestock. Others still had some of the big 1946 crop and were able to cash in.

What are the chances of a short crop in the next few years that would make a corn reserve look like a gold mine?

Really poor corn years average about 10 years apart. Most farmers can recall 1947, 1936 and 1934. Older farmers remember 1924, 1918, 1901 and 1894.

You'll notice that sometimes bad corn years come fairly close together. That fact made some older farmers decide never to sell one crop of corn until another was assured.

There are farmers who think that is good policy today. Especially since farmers have an unusual opportunity to build a corn reserve as insurance against short crops.

The opportunity comes thru corn resealing, loans on the new crop, crib loans and fast tax write-offs on new cribs.

If you lack bins in which to reseal the corn, the 15 cents per bushel storage payment will pay part of the cost. If you reseal two years, a very large percent of the cost is returned to you and you have the bin left for further use.

The government offers loans of 80 percent of the cost of grain storage units you may buy or build to store the corn on the farm. And also a five-year write-off of the cost on your income tax return.

For those who can and wish to build a corn reserve from the new crop, the crib loans and fast tax write-off are available on ear corn cribs.

A few farmers wonder if it's necessary to build a corn reserve on the farm. The government or someone else will store the corn.

Others point out that when corn gets off your farm, it will cost more than you got for it to get it back. It's better to collect storage than to pay it.

It looks to be just good farm business management to build and keep a corn reserve on your farm. It's a safety measure whether you are a livestock feeder or a cash grain farmer.

And the present government program of corn loans, re-sealing, crib loans and tax write-offs makes it easy to build and keep such a corn reserve.

PREPARE NOW
For Safety and Speed
During Combining and Cornpicking
THE ORIGINAL RED DOG TRACTOR HITCH

CONTROLLED FROM DRIVER'S SEAT
$7.95 Reduces possibility of injury to the hands. Fits all drawbar tractors and on rear of corn-pickers, balers, hayloppers, and jeeps. No need changing original tongue on wagon.
FULLY GUARANTEED
ACCEPT NO SUBSTITUTES
SEE YOUR IMPLEMENT DEALER
C. W. Goff Mfg. Co., Washington, Ia.

STATE FAIR
FLY CONTROL
with
"SPRA-FLY"
Now available thru your dealer
A product of
SPRA-WHITE CHEMICAL CO., Inc.
436 G Avenue N. W.
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VISIT US AT THE FAIR
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ONE-MAN BRUSH-CLEARING TEAM

Hoffco
Portable
POWER TOOLS
Cut grass, weeds, and trees up to 18" in diameter. Get lowest price, lightest weight, widest cutting applications with Hoffco, originators of portable brush-clearing tools. See your dealer for a demonstration. Write for free literature.
Hoffco, inc.
DEPT. G, RICHMOND, INDIANA

Original
HENRY
Belt-Pulley Gear Shift

For WC and all WD Allis-Chalmers tractors. Shifts pulley in and out of gear from seat. Pat. Guaranteed. Only $10.90.
- HYDRAULIC CYLINDER MOUNTING BRACKET for all A-C combines $16.75
- PUSH-O-MATIC BRAKE STOP for WD tractors ..... $ 9.75

Ask your A-C dealer or order direct
HENRY GEAR SHIFT CO., Bedford, Iowa

Crib Plans FREE!

Send for FREE Crib blueprints with materials list. Also FREE Elevator Catalog showing 10 styles. Write TODAY!
Meyer Farm Elevators — Cup and Portable
Simplest, strongest—no short turns. Widest, sturdiest PORTABLE — handles everything. Write us your crib problems today! State if interested in BUCKET or PORTABLE.
MEYER MFG. CO. Box 2465 MORTON, ILL.

RUST RESISTANT SEED GRAINS IN SHORT SUPPLY.
For latest information write
Consolidated Seed Growers, Box 67, Dixon, Illinois

"When war came"

Back in the early days of the Iowa Homestead, farm boys were leaving home to serve in the Civil War. And this paper—since there was no radio and few newspapers—printed war news as well as farm news. Here are some comments on the battle of Pittsburgh Landing, later better known—in the north—as Shiloh.

In April, 1862, the editor of the Iowa Homestead reported: "The greatest battle of the war thus far has been fought at Pittsburgh Landing, Tenn. The rebels under Johnston and Beauregard are completely routed with tremendous slaughter. . . .

"The battle raged until three o'clock in the afternoon (April 6) when the rebel column beginning to waver, the affair was decided by a grand charge before which the rebel force broke."

But by May 1, more news had come thru, including letters from men in the service. The Homestead wasn't so sure that a victory had been won, altho it still reported that retreating Confederates were "closely pursued."

On May 8, the editor was apparently convinced that something had gone wrong in Tennessee. He wrote: "We think it a great misfortune that Halleck or General Buell had not been on the field a short time previous of the battle . . . The fighting of our generals is brave and heroic, but their management . . . could not have been worse."

In the same issue, a month after the battle, an item is quoted from another paper and headed "The Pittsburgh Blunder." The quotation notes: "To our mind there is no use speculating as to the cause of the awful surprise at Pittsburgh. There can be but one version of the affair, and this is gross carelessness on the part of the commanding officer."

The commanding officer, of course, was U. S. Grant. And the battle, in the news, had changed from a "complete rout" of the enemy to an "awful surprise" with a search for a scapegoat.

In this search for a goat, other Northern regiments were mentioned. The Dubuque Times spoke of the Iowa regiments with General Prentiss and noted "In this hour of peril, every man ought to do or die. The Ohio and Illinois troops fell back or took to their heels in flight leaving the line something in the shape of a U, the middle of the letter being represented by the 8th, 12th and 14th Iowa."

For years after, the battle of Shiloh was to be debated. Was Grant surprised? Did Buell save Grant's army? Did Beauregard—on the southern side—lose a battle Johnston had won?

Iowa farmers found in the Iowa Homestead the beginning of one of the long Civil War arguments. More important, Shiloh brought mourning to many Iowa homes. Eleven Iowa regiments took a heavy loss in dead, wounded and prisoners.

Check these benefits of an Iowa Mutual Tornado policy:
- Full, liberal wind insurance coverage (including hail coverage on buildings).
- Combination or separate policies—to suit the individual needs — in cooperation with County Mutual Fire and Lightning Associations.
- Cooperates on property inspections.
- A thorough Loss Prevention Program, with aid of Research by Agricultural Engineering Department, Iowa State College.

SEE YOUR FRIENDLY COUNTY MUTUAL REPRESENTATIVE

IOWA MUTUAL TORNADO INSURANCE ASSOCIATION
Hubbell Building Des Moines 8, Iowa

WHY are HANSON SILOS AND CRIBS FAMOUS in the Upper Midwest?

BECAUSE . . . Hanson concrete stave silos and cribs have withstood the test of time on thousands of farms for 39 years . . . since 1916.

BECAUSE . . . Hanson concrete stave silos and cribs are recognized for guaranteed construction using only top quality materials.

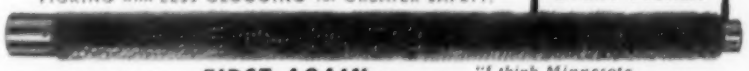
BECAUSE . . . Hanson concrete stave silos and cribs are delivered promptly and erected by skilled crews.

BECAUSE . . . Hanson concrete stave silos and cribs are reasonably priced and easy to finance.

YOUR BEST BUY IS A HANSON SILO OR CRIB
WE ALSO MANUFACTURE AND ERECT CONCRETE STAVE GRAIN BINS
Wire, phone or stop in for complete information
HANSON SILO CO. LAKE VIEW, IOWA
PLANTS ALSO AT LUVERNE AND LAKE LILLIAN, MINN.
EMIL HANSON & SONS SINCE 1916

NOW IS THE TIME TO CHANGE TO
MINNESOTA HUSKING ROLLERS

and get championship performance from that old or new picker of yours. Thousands of farmers each year are switching to these efficient, low priced, easily-installed rollers.
Minnesota patented rubber and cord rollers mean CLEANER PICKING with LESS CLOGGING for GREATER SAFETY.
WE HAVE ROLLERS FOR EVERY PICKER



PAT. NOS. 2,616,14 2,616,15 & 2,616,74
1953 1954
FIRST AGAIN For the second straight year the National Corn Picking Contest was won by a machine equipped with Minnesota Husking and Snapping Rollers
"I think Minnesota Snapping and Husking Rollers are a wonderful asset to any picker," says champion Elmo Redding of Flora, Indiana.

See your local dealer or write direct for free information. Dept. 846
GRAM & WESTERGAARD, Inc. 4014 N. ROCKWELL STREET CHICAGO 18, ILLINOIS

BOOST *Your* CORN PROFITS

with this

Aerovent STAR DRYER

Don't depend on field drying! Pick your corn as soon as it matures, then dry and store it with assurance that it is safe from spoilage. If you sell, you can beat the market by 2 to 3 weeks. Every advantage will be yours with a safe, early harvest.

Check these features.

- Scientifically designed heat exchanger delivers maximum heat to airstream.
- A 5, 7½ or 10 horsepower motor drives 36-inch, 7-blade propeller to force dry air throughout grain.
- Stainless steel jet burner accommodates No. 1 or 2 fuel oil for high heat output.

There's an Aerovent Fan for Every Farm Use. Shown: Model 73281—3 h.p. in Concrete Crib On Charles Stonier Farm near Bondurant.

GEORGE A. ROLFES CO.
BOX 549, BOONE, IOWA

GEORGE A. ROLFES CO.
BOONE, IOWA
Please Send Me Your FREE Bulletin, "Drying Corn for Profit."
Name.....
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IDEAL LINE

IDEAL PROFIT MAKING WATER EQUIPMENT

- A completely automatic watering unit that will furnish an ample supply of conditioned water for both cattle and hogs.
- Heavy gauge steel-welded seam construction for long life.
- Hinged covers for both troughs insure savings in heat costs.
- Fully insulated for additional heat savings.
- Designed for fence line installation to serve two feed lots.
- Drains in both troughs for easy cleaning.
- The Ideal can be automatically heated by electricity and gas thermostatically controlled, or with oil.

SIZE OF THIS IDEAL WATERER IS 23" x 30½" x 29" HIGH. WEIGHT 160 LBS.

LOADED WITH LABOR SAVING FEATURES

- You'll get automatic, dependable heating service for your livestock watering tank in the coldest weather with an Ideal Automatic Bottle Gas Tank Heater.
- Water temperature controlled by Robertshaw thermostatic controls.
- Air intakes and exhaust designed to protect against down drafts and high winds—assures continuous operation under all conditions.
- Large heat transfer area to efficiently handle 12,000 BTU's per hour at low cost.
- Control and elimination of condensation is fully guaranteed.
- Adjustable bracket for installation in any size water tank.

THE IDEAL BURNER AND CONTROL CAN BE RAISED TO A POSITION JUST BELOW TOP OF HEATER FOR EASY LIGHTING OF UNIT—A REAL SAFETY FACTOR.

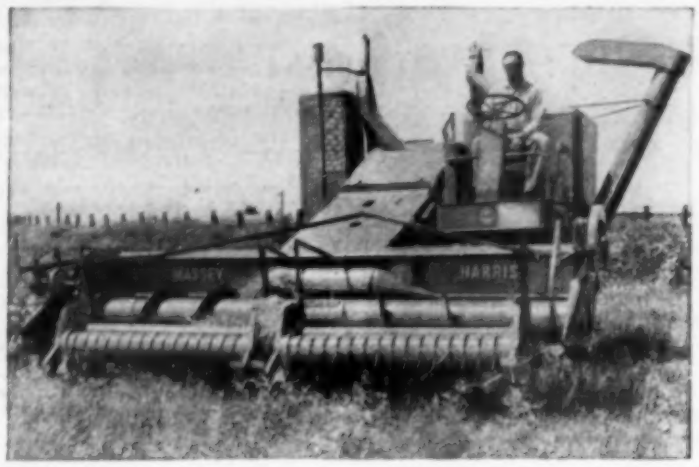
Visit the Ideal Display Just South of the Varied Industries Building at the Fair . . . and See the Ideal Line of Barnyard Equipment

SEE IT AT YOUR DEALERS NOW!

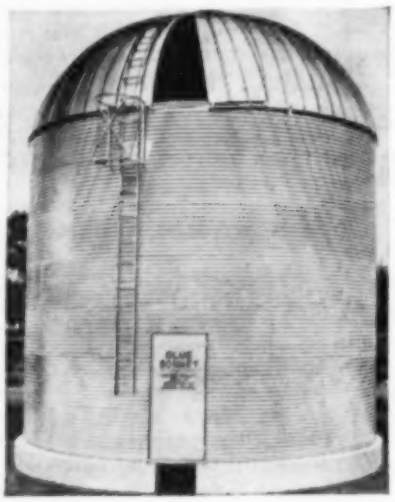
NATIONAL MFG. & STAMPING CO.
2425 DEAN AVENUE, DES MOINES, IOWA

What's New

For further information about any of the products shown here, write to Wallaces' Farmer and Iowa Homestead, Des Moines, Iowa. (More "What's New" articles for farm and home will be found on page 138 of this issue.)

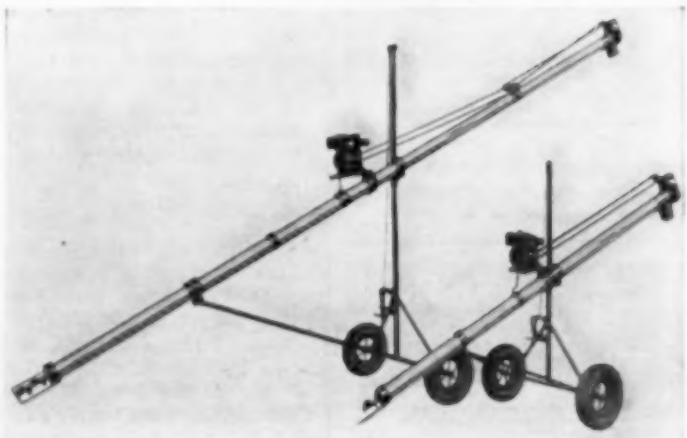


Pickup for combine is made in two sections. It is said to eliminate raking swaths together, or even make windrowing unnecessary. Free-flowing pickup gets grain packed down by rain and feeds it evenly into machine. Here it's attached to Massey-Harris operated by Leslie Martinie, Dallas county, Iowa. But it's said to attach to most combines. Pickup is made by the Innes Company.



Crib is designed for drying and storing ear corn. Mounted drying fan is built in. But the fan can be removed for other uses. There's a duct system for ventilation and a drag tunnel to make removal of corn easy. Made in sizes up to 3,265 bushels capacity. Korn-Keeper crib is made by Krop-Kare Products Division of Kilby Steel Co.

Fence tool is said to make easy work of attaching wire to steel fence posts. One quick operation securely locks wire in place. Ties easily removed when moving fences. Made by Jiffy Fencing Tool Company.



New line of grain and feed conveyors has six-inch augers. Lengths are 11 to 41 feet. Either electric or gasoline power. Made by LML Corporation.

IOWA ANGUS LEAD THE PARADE

In 1955 members of the Iowa State Angus Association consigned 302 head of Iowa Angus to

The Largest State Angus Sale of the Breed

THE IOWA "SHOW WINDOW" SALE

Here is proof of their quality:

Top 25 females averaged.....$1,678
Top 25 bulls averaged..... 1,393
Top 50 head averaged..... 1,535

IN THE FUTURITY		IN THE OPEN CLASS	
75 bulls averaged	$641	59 bulls averaged	$615
74 females averaged	727	76 females averaged	536

The 302 head offering brought a total of $184,850, and averaged $612.

We sincerely thank all the consignors for the quality, condition, and breeding of the very popular offering. By bringing out their best, they proved that top cattle bring top prices in your state sale.

Plans are now being made for next year's sale. Let's make it even better. Select your consignments now, and have them in the best of condition by sale time, January 30 and 31, and February 1.

IOWA STATE ABERDEEN-ANGUS BREEDERS ASSOCIATION
CLYDE A. HANNA, Secy.-Sale Mgr., OSKALOOSA, IOWA

HAMPSHIRES
LEAD THE PARADE OF MEAT TYPE HOGS

Plan to Attend These
TWO GREAT HAMPSHIRE EVENTS

August 30—Des Moines, Iowa

On Tuesday, August 30th, many of the Mid-West's leading Hampshire breeders will parade their best before the judges at the Iowa State Fair in Des Moines, Iowa. Plan to be on hand, and see the continued improvement being made in the Hampshire breed.

September 22—Cedar Rapids, Iowa

On Thursday night, September 22d, Iowa Hampshire breeders will hold their annual fall sale at Cedar Rapids, Iowa. Many leading show winners have been bought and sold in this sale. Come early and see the pre-sale show. Send now for FREE catalog. Please mention this publication. Address

EMERY RIEMENSCHNEIDER, Secy., PIERSON, IOWA

CLARK COUNTY

HEREFORD ASSOCIATION

SHOW — For sale order at 10:00 A. M.
Located 20 miles southwest of Keokuk, Iowa, and 1 mile west of

KAHOKA, MISSOURI, SAT., SEPT. 17

Starting at 1:00 P. M.

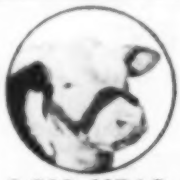
50 HEAD — 15 Rugged Bulls, 35 Desirable Females

A good useful offering of dependable cattle, popular blood lines, presented in strong breeding condition and consigned by reliable breeders. The consignors are:

G. R. BREIDENSTEIN.....Kahoka, Mo.
DELBERT SPRAY.....Kahoka, Mo.
CHESTER WELKER...Williamstown, Mo.
CLYDE GASTON & SON..Farmington, Ia.
A. G. EVANS.....Revere, Mo.
I. N. LEWIS.....Revere, Mo.
MRS. WILLIS SHEFFER.....Revere, Mo.
GLENN WENDLING.....Luray, Mo.

Bulls well-grown, most all ready for service, herd bull prospects. Cows with calves and rebred, bred cows and heifers mated to top herd sires and attractive open heifers. Plan to attend. Ask now for FREE catalog. Kindly mention this publication. Address

G. R. BREIDENSTEIN, Secy., KAHOKA, MISSOURI
Auctioneer, Emerson Martin; Arch Stone, Fieldman



THIRTY-FIRST ANNUAL

STOCKER AND FEEDER SALE

At our yards, 10 miles north of Mason City

MANLY, IOWA, THURS., SEPT. 8th

2,500 HEAD All of these cattle are good quality range bred HEREFORDS. There will be STEERS, STEER CALVES, HEIFER CALVES and HEIFERS. Those who feed this year should make money. Guaranteed weights will be given on sale day. COME! Buy at your own price. The price is left entirely to farmers and cattlemen. Full details will appear in another issue.

OSWALD STRAND & SON, MANLY, IOWA
Clerk, 1st National Bank, Mason City; J. E. Halsey, Fieldman

READ THE ADVERTISEMENTS—THEY'RE NEWS OF WHAT'S NEW

World's Greatest County Fair

CLAY COUNTY FAIR
SPENCER, IOWA
September 11-17

Big Livestock and Farm Show . . . with Thousands of Exhibits competing for over *$22,000* in Premium Money.

One of the largest *4-H* and *F.F.A.* exhibits of its kind. *$10,000.00* paid out in 1954 to these JUNIOR showmen of which *$3,000.00* was in the Cattle Department alone.

Afternoon Events—Monday, September 12th, Thrillcale; Tuesday, September 13th, Big Car Races; Wednesday and Thursday, September 14th, 15th, Harness Horse Races; Friday, September 16th, Stock Car Races and 4-H Livestock Sale, and Saturday, September 17th, Championship Car Racing.

A beautiful stage review each evening at 7:30 P. M.
Fireworks Monday and Saturday Nights.

Reserve grandstand seats will be placed on sale August 15th. Price *$1.00*. Send check or money order, stating date and performance you wish to attend.

Make plans now to attend and meet your friends at this outstanding Livestock and Farm Event. Good, clean, enjoyable entertainment for the entire family.

Livestock entries close August 31st

For FREE or additional information write or call

BILL WOODS, Secretary

SPENCER, IOWA

National DAIRY CATTLE CONGRESS

INVITES YOU TO ATTEND ITS
43RD ANNUAL EXPOSITION
and
The Five Official National Breed Shows

Show window of the dairy world—Thrill to the sight of seeing the champions from state fairs competing for national honors in the Ayrshire, Brown Swiss, Guernsey, Holstein and Milking Shorthorn Divisions. The Jersey Breed will be represented upon a nation-wide basis. The premiums are the largest in the history of the Show.

Plan your vacation now—Make the week of October 1 to 8 your vacation. In addition to the outstanding cattle show you'll enjoy the acres of modern machinery on exhibit, the educational exhibits in the Women's and Girls' division, the romance of viewing the National Belgium Horse Show as well as the many other Allied Shows. Whether you plan to stay over night or for the full 8 days write the Rooms Bureau, Waterloo Chamber of Commerce, Waterloo, for full details about housing. Send a post card today for a free colorful descriptive folder.

EVERYTHING in the DAIRY WORLD

OCT. 1-8 WATERLOO IOWA

TRY

LEE NORRIS HAMPSHIRES

Herd Concentrating on Long, Growthy, Meat-type Blood Lines. Sires Are GENERAL IKE and SPECIAL STREAMLINER.

Inquiries Welcome and Answered

ANNUAL PRODUCTION SALE, WEDNESDAY NIGHT, OCT. 12

Breeding stock for sale at nearly all times. State accredited herd No. 131. See our exhibit at the Iowa State Fair. We have top quality in our spring crop.

LEE C. NORRIS, FREMONT, IOWA

FEED BP Blended Protein

FEED of CHAMPIONS

FOR MARKET OR SHOW RING

First in Leadership! First in Quality! First in Championships!

For More Facts About BP Feeds And Where To Buy Them . . WRITE: **PROTEIN BLENDERS, INC., Iowa City, Ia.**

STATE FAIR HEREFORDS

Judging (Open) August 31 — Club Show September 2-3

See *IOWA HEREFORDS* on parade at the Nation's Greatest State Fair

For Information, Contact

IOWA HEREFORD ASSOCIATION, CUMMING, IOWA

ABERDEEN ANGUS

M. B. ANGUS FARMS

PRINCE QUALITY OF SUNBEAM

His progeny have quality and merit. Several excellent young bulls by him and our other herd bulls, **BAR QUALITY M. B.** by Prince Quality of Sunbeam, **RAONA'S PRINCE ERIC 21st** by BLS Prince Eric 24th. We have the most fashionable families. Genuine Herd Bull Prospects. Act now. Farm 12 miles S. W. of Iowa City. Visitors always welcome. Phone Sharon Center 2 on 35.

MAAS BROS., RIVERSIDE, IOWA
Meredith, Meredith, Jr., and Donald

CHOICE ANGUS

BULLS FOR SALE
Sons of
EILEENMERE W. B.

Grandson of Eileenmere 487th and Eileenmere Eric by **EILEENMERE W. B.** They are **12** to **24** months old, ready for service. Herd bull prospects for Breeder or Farmer. They will sire top cattle. Visit farm any time.

I. E. KEMP — **MARION, IOWA**

KATHMAR ANGUS FARMS

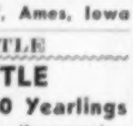
Want a Bardolier?

DONAHUE, IOWA

HERD SIRES:
BARDOLIER 40th OF WILTON
son of Black Bardolier of White Gates 3rd
BARDOLIER 7th OF WILTON
son of Evaders Quality Bardolier
Females, ANNUITY, BEAUTY OF HAYSTON, MISS BURGESS, BLACKCAP BESSIES, ELBA ERICAS, KATINKAS, and many others.

DR. C. E. BLOCK
718 1st Natl. Bldg. — Davenport, Iowa

QUALITY ANGUS



A few choice registered cows with calves. Also top young bulls, ready for service. Rich breeding, ideal type, excellent quality. Priced to sell. Act Now. (Farm 5 mi. S., 1 mi. E.) Phone Huxley 1219.

Ames & Knutson, Box 27, Ames, Iowa

FEEDER CATTLE

44,000 CATTLE

33,000 Calves—11,000 Yearlings

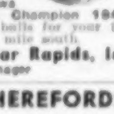
Will sell in Missouri Cooperative Feeder Cattle Sales, September 13 to October 15, 1955. For catalog write

M. S. BARNETT
230 Mumford Hall — Columbia, Mo.

Watch for detailed advertising.

HEREFORDS

FOREST GROVE FARM



One of Iowa's best herds of
HEREFORD CATTLE
Bulls in service
WHR Puritan Mixer 1st
By WHR Dual Mixer
FGF Pioneer Lad 15th
Champion Open Class 1951 Iowa State Sale, by Pioneer Lad 2d, Champion 1948 Iowa State Sale. Choice young bulls for your inspection. Farm 6 miles east, ½ mile south.

Herb Killian, Owner, Cedar Rapids, Ia.
PAUL WOLF, Manager

BRAEMOOR PLACE HEREFORDS

Herd Established in 1924

30 very choice rugged bulls suitable for Herd Bulls. Carlots or groups to please.

Carl H. Goeken, Atlantic, Iowa

ROBERT • GILES • LESTER
• SD & S •
VIRGIL • JOE • NORBERT

Quality Hereford Cattle
JOHN DITTMER & SONS, LACONA, IOWA

SKOW'S STOCK FARM

Horned Hereford Bulls, serviceable age. Also open heifers. Calfhood vaccinated for bangs. Sired by **TH LARRY ONWARD 35th** 6745189, son of Thorp's famous MW Larry Onward 13th. Reasonable.
JOSEPH A. SKOW — WESLEY, IOWA

Double AA Hereford Farm

Offers choice Registered Horned HEREFORDS, sons of **GOLDEN ASTER 60th** 672891. Visitors always welcome.
ARTHUR E. ADER — ROLFE, IOWA

POLLED HEREFORDS

CURRAN POLLED HEREFORDS

For Immediate Sale

Choice Herd Bull prospects by **CSF CHOICE DOMINO 2d.** Herd federally accredited, all females officially calfhood vaccinated.

Curran Stock Farm, Mason City, Iowa

WESTHAVEN PLACE

WP Conqueror 44th

Breeding stock, both bulls and females, all ages, for sale at all times.

HERD BULLS
CAPTAIN PLATO 61st
MCV DOMINO
GPH PLUS PERFECT 4th
WP CONQUEROR 30th

Always welcome at our farm.
WESTCOTT BROS. — DENISON, IOWA

POLLED HEREFORDS

We have some strong aged bulls ready for heavy service for sale and a fine lot of young bulls coming on for both breeders and farmers. One of the breed's best known herds.

Headed by: **BATTLE MIXER, P. ANXIETY ASTER.** Come look them over.

P. M. CHRISTENSEN & SON, LONE ROCK, IA

YEARLING BULLS

Good growthy Polled Hereford bulls sired by Modest C. Lamplighter 7th for sale.
ERNEST DAY & SONS — GRIMES, IOWA
10 miles northwest of Des Moines

SHORTHORNS

Choice SHORTHORN Herd Bull Prospects by LAWTON PRIAM and BEAUFORT BAYARDO (Imp.). Also several outstanding POLLED SHORTHORN bulls by the great imported sires. Write or visit farm.

LAWTON PRIAM (Imp.)

BEN G. STUDER, WESLEY, IOWA

SHORTHORN BULLS

Choice bulls offered, dark colors, 9 to 17 months old. Younger bulls by **EDELLYN GOLDEN PRINCE** by Uppermill Metaphor (Imp.). REASONABLE. (Farm 9 miles W., 1½ miles N.)
REX WALKER — WINTERSET, IOWA

POLLED SHORTHORNS

SHADYBROOK FARMS

The place to buy that better Polled Shorthorn bull for less money, with that extra weight for age. Sired by our two herd bulls that weigh well over a ton each.
BERT A. HANSON, VERNON CENTER, MINN.
Farm 30 miles north of Iowa line on U. S. 169

DAIRY CATTLE

Notice—Dairy Calves. If calves are shipped or delivered on approval, full responsibility is assumed when purchaser accepts delivery. Remember calves are young, some are small, which must be considered when buying.

WANTED—ORDERS for high grade Wisconsin dairy heifer calves. Holstein and Guernsey. Bangs tested and vaccinated for shipping fever. Delivered by our truck, C.O.D. your farm in lots of 5 or more. Dairy heifers, open, bred and springing. Also cows available. Jay Sheafor, Jr., Richland Center, Wisconsin.

Wisconsin Holstein-Guernsey

Dairy heifers shipped to you on **APPROVAL** from **WISCONSIN** high production herds. Don't be misled, buy direct. Ask for **FREE** price list.
OTTO VANDERBURG, NORTH PRAIRIE, WIS.

WISCONSIN-MINNESOTA DAIRY CATTLE

Choice **HOLSTEIN** and **GUERNSEY** heifers from **350** lbs. to **900** lbs. All heifers sold by pound. **HOLSTEINS 14c** per lb. **GUERNSEYS 13c** per lb. Also springing heifers and cows. Most heifers are from artificial breeding; a large number are calfhood vaccinated. Buy from the largest dealer in the **NORTHWEST.** Write or call.
LINK BROTHERS, INC. — MINONG, WIS.

WISCONSIN'S GOOD QUALITY

HOLSTEIN AND GUERNSEY DAIRY HEIFERS AND HEIFER CALVES

Any age. Will deliver any sized order on approval by truck.
ROSS BLOTT, Box 527, MUKWONAGO, WIS.

WISCONSIN HOLSTEINS AND GUERNSEYS

CHOICE COWS, HEIFERS AND CALVES
Delivered on approval.
JAMES E. WELCH, R. 1, MUKWONAGO, WIS.

Coming Livestock Sales

ANGUS

Aug. 27—Otto G. Nobis & Griff Norton, (Dispersion) Joint Herd, Wilton Junction, Iowa.
Aug. 29—E. W. Thompson, Sedalia, Mo.
Sept. 19—North Central Missouri Breeders, Chillicothe, Mo. Lewis Anderson, Secy.
Sept. 27—A. C. Flint, Bethany, Mo.
Oct. 1—Draper & King and Ben & Vera Ivins, Corydon, Iowa. Sale at Homeston, Iowa.
Oct. 6—Northeast Iowa Breeders, Cedar Falls, Iowa. Bob Robinson, Sale Mgr., Masonville, Iowa.
Oct. 6—George Flamank, (Dispersion) Albany, Mo. Donald J. Bowman, Sale Mgr., Hamilton, Mo.
Oct. 8—Hawkeye Angus Breeders Assn., Cedar Rapids, Iowa. Albert Stuart, Secy., Newhall, Iowa.
Oct. 10—Nodaway County and Harrison County Joint sale, Maryville, Mo.
Oct. 18—Blackpost Ranch, Olathe, Kan.
Oct. 20—Grand River Angus, Princeton, Mo. Marion Summers, Mgr., Princeton.
Oct. 21—Lazear Angus Farm, Chariton, Iowa.
Oct. 22—Hale Thompson, Eagleville, Mo.

FEEDER CATTLE

Sept. 8—Oswald Strand & Son, Manly, Iowa.
Oct. 10—Scotland County, Memphis, Mo.
Oct. 11—Davis County, Bloomfield, Iowa.

HEREFORDS

Sept. 9-10—Western Illinois Hereford Assn., Mt. Sterling, Ill. Robert Allen, Secy., Warsaw, Ill.
Sept. 17—Clark County Herefords, Kahoka, Mo. G. R. Breidenstein, Mgr.
Sept. 17—Northeast Iowa Breeders, Postville, Byron Boil, Secy., Wadena, Iowa.
Oct. 1—Clark J. Lamport Calf sale, Britton, S. D.
Oct. 1—Tomlin & Welland, Mason City, Ill.
Oct. 3—Thorp Hereford Ranch, Britton, S. D.
Oct. 3—(Night) North Star Herefords, Britton, S. D.
Oct. 5—Ralph Bramer, Murray, Iowa.
Oct. 6—Wilbert G. Robinson, (Dispersion) Sabula, Iowa.
Oct. 8—John Dittmer & Sons, Lacona, Iowa. Sale at Knoxville, Iowa.

HEREFORDS

Sept. 28—North Iowa Breeders, Mason City, Iowa. Leigh Curran, Secy.
Oct. 19—Blue Grass Hereford Assn., Princeton, Mo. Norma Gay Young, Secy., Princeton, Mo.
Nov. 3—Northeast Missouri Hereford Breeders Assn., Memphis, Mo. Vernon Winkler, Secy.
Nov. 5—Orval Burchett & Sons, Grand River, Iowa. Wayne O. Burchett, Mgr.
Nov. 17—Illinois Futurity show and sale, E. Glen Ash, Secy., Harristown, Ill.
Nov. 19—Western Illinois Hereford Assn. (Calf Club sale) Macomb, Ill. Robert Allen, Secy., Warsaw, Ill.
Nov. 26—Hereford Breeders Calf sale, Story City, Iowa. Leon Joy, Mgr., Ames, Iowa.

POLLED HEREFORDS

Sept. 9-10—Western Illinois Hereford Assn., Mt. Sterling, Ill. Robert Allen, Secy., Warsaw, Ill.
Sept. 15—Worner Polled Hereford (Dispersion), San Jose, Ill.
Sept. 28—North Iowa Breeders, Mason City, Iowa. Leigh Curran, Secy.
Oct. 15—O'Bryan Ranch, Hiattville, Kan.
Oct. 29—Missouri State Futurity show and sale, Columbia, Mo. Donald J. Bowman, Sale Mgr., Hamilton, Mo.
Nov. 9—Master Key Place, Fulton, Mo.
Nov. 14—O'Bryan Ranch, Hiattville, Kan.
Nov. 16—Ted Griswold, Livington, Wis.
Dec. 5—L. J. Marzen, Marble Rock, Iowa.
Dec. 6—Hervale Farms, Wayne, Nebr.
Dec. 8—Green Ridge Farm, (Dispersion) Donald & Helen Bowman, Kidder, Mo.
Dec. 9-10—Illinois Polled Hereford show and sale, Princeton, Ernest Painter, Secy., La Harpe, Ill.

SHORTHORNS

Sept. 24—Hawkeye Downs 5th sale, Shorthorns and Club calves. Earl S. Girton, Sale Mgr., Vinton, Iowa.
Oct. 3—Northwest Missouri Breeders, Rockport, Mo. Dr. L. W. Landfather, Mgr., 412 W. 2nd, Maryville, Mo.
Oct. 6—Carl Retzlaff, Walton, Nebr. Mervin F. Aegerter, Sale Mgr., Seward, Nebr.
Oct. 8—Spencer Shorthorn Sale and 4-H Calf sale, Spencer, Iowa. Albert J. Hamann, Mgr., Rock Rapids, Iowa.
Oct. 22—Aksarben Acres, Omaha, Nebr.
Oct. 26—Carl McKenzie, Armington, Ill.

POLLED SHORTHORNS

Sept. 16—Hawkeye Downs 14th sale, Cedar Rapids, Iowa. Earl S. Girton, Sale Mgr., Box 452, Vinton, Iowa.
Sept. 27—Sioux Empire Show & Sale, Sioux Falls, So. Dak. John F. White, Secy., Lake Norden, So. Dak.
Nov. 2—Missouri Breeders, Sedalia, Mo. Rollo E. Singleton, Sale Mgr., Jefferson City, Mo.
Nov. 16—Iowa State sale, Des Moines, Iowa. Wayne A. Carr, Secy., Cincinnati, Iowa.

DAIRY CATTLE

Sept. 10—V. R. Wolf, Preston, Minn. (Jersey dispersion). Ivan N. Gates, Sale Mgr., West Liberty, Iowa.
Sept. 15—Iowa State Jersey Breeders sale, Waterloo, Iowa. Ivan N. Gates, Sale Mgr., West Liberty, Iowa.
Sept. 21—15th Annual Tri-County Holstein sale, Wellman, Iowa. Dave Yoder, Mgr., Kalona, Iowa.
Sept. 26—Miller-McDaniel (Jersey dispersion), Clarinda, Iowa. Ivan N. Gates, Sale Mgr., West Liberty, Iowa.

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TOP QUALITY
Holsteins, Guernseys, Brown Swiss.
All ages. Priced right.
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Choice springing heifers and cows, also open heifers and bred heifers. T.B. and BANGS tested. Order buying a Specialty. Phone 3895.
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Tested. Delivered your door collect. 50 or more on hand. Inspection invited.
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3 cows giving milk, 3 bred heifers, and 5 heifer calves from 2 to 4 months old. Also 5 bull calves from 1 to 4 months old. Come soon.
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Boars and Open Gilts

Dairy Cattle Congress

WATERLOO, IOWA
SAT., SEPT. 10th

Starting promptly at 1:00 P. M.

Choice well-grown boars and excellent open gilts, from leading herds. Ideal type, rich breeding, best quality. Be sure to attend this sale of **REAL MEAT-TYPE** breed, all animals double treated for cholera and **BANGS** tested **30** days prior to sale. Ask now for **FREE** catalog. Kindly mention this publication.

T. H. BOWERS, Secy.
Malcom, Iowa

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6,000 FEEDER PIGS AT AUCTION

Sept. 8—Alton, Mo.—3000
F. O. Young, Secy.
Alton, Missouri

Sales are held in farmers' own pens

Sept. 9—Doniphan, Mo.—3000
L. J. Whiteside, Secy.
Fairdealing, Missouri

All pigs vaccinated with serum and virus 30 days or more prior to the sale. Can ship anywhere.

Pigs are sold by the pound.

These pigs are well-bred, thrifty, good-doing kind, raised on the farms in the surrounding area. Veterinary inspection the day of the sale.

Pigs will weigh from 25 to 125 pounds.

They are sorted into uniform lots.

The number of pigs per lot will vary from a few to over 100 head.

IOWA

LANDRACE BREEDERS

SHOW—4:00 P. M. — SALE—7:00 P. M.
Boone County Fair Grounds

BOONE, IOWA
THURSDAY, AUGUST 29th
NIGHT SALE—7:00 P. M. (C.S.T.)

70 REGISTERED LANDRACE
20 BRED SOWS
15 CHOICE GILTS
35 TOP BOARS

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During State Fair
Ankeny Sale Pavilion
ANKENY, IOWA
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NIGHT SALE
25 Top Boars—25 Choice Gilts

Choice registered **YORKSHIRES**. About half farrowed in November, others farrowed in January. Ideal for those who desire to breed now for the more profitable early pigs. Rich breeding, excellent type, pleasing quality. Ask today for **FREE** catalog. Kindly mention this publication. Address

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Ardmore's Tamworths
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IOWA CITY, IOWA
FRIDAY, SEPTEMBER 9th
65 HEAD
15 BRED SOWS AND GILTS
20 ATTRACTIVE OPEN GILTS
30 TOP, RUGGED BOARS

Rich breeding, wonderful quality, ideal type. Well-grown. They will please. Ask now for **FREE** catalog.

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TAMWORTH SALE
At farm near
Sheldon, Iowa, Mon., Sept. 12
Night Sale Starting at 7:30 P. M.
80 HEAD
20 BRED SOWS AND GILTS
Selected from our tops
30 BIG RUGGED BOARS
A few fall boars and other spring boars—genuine herd prospects
30 OPEN SPRING GILTS
Ideal for foundation use

Rich in best blood lines. Breeding stock at its best. **COME!** Ask now for **FREE** catalog. Kindly mention this publication. Address

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FLOYDCREST FARMS

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BERKSHIRES

Sept. 14—National show and sale, Barrow Show, Austin, Minn.
Sept. 23—National Futurity show and sale, Springfield, Ill.

CHESTERS

Sept. 29—Henry Jurgensen, R 2, Olin, Iowa.
Oct. 8—A. L. Bidne & Son, Lake Mills, Iowa.
Oct. 11—(Night sale) Albert H. Petersen, Jesup, Iowa.
Oct. 12—(Night sale) Walter Schminke, Van Horne, Iowa.

DUROCS

Oct. 1—Wm. Helmke & Son, Renwick, Ioowa.
Oct. 6—Gregor Vaske & Sons, Dyersville, Iowa.
Oct. 7—Juhl Bros., Luverne, Minn.
Oct. 8—Bert Brock & Sons, Sioux Center, Iowa.
Oct. 25—(Night sale) Iowa State Duroc sale, Boone, Iowa. Clarence E. Bundy, Secy., 220 Curtis Hall, Ames, Iowa.
Oct. 26—(Night sale) D. D. Staples, Des Moines, Iowa.

FEEDER PIGS

Sept. 9—Feeder Pig sale, Doniphan, Mo.
Sept. 8—Feeder Pig sale, Alton, Mo.

HAMPSHIRES

Sept. 21—(Night sale) Henderson Farm, Coin, Iowa.
Sept. 22—(Night Sale) Iowa Hampshire Breeders, Cedar Rapids, Iowa.
Sept. 23—(Night Sale) Orville Meeker, Oakville, Ia.
Sept. 24—(Night sale) Eugene Fitz & Son, Melbourne, Iowa.
Sept. 26—(Night Sale) Duncan & Smylie, Columbus Jct., Ia.
Sept. 27—(Night sale) George Lorenz, Wells, Minn.
Sept. 28—(Night sale)—Field & Christiansen, Nora Springs, Iowa, and Don Yusten, Kasson, Minn. Sale at Osage, Iowa.
Sept. 29—(Night Sale) Dean Snyder, Good Hope, Ill.
Oct. 3—(Night sale) McGuire Hampshire Farm, Wisner, Nebr.
Oct. 4—Allen Lang & Son, Brooklyn, Ia.
Oct. 4—(Night Sale) C. T. Keen & Son, Le Grand, Ia.
Oct. 5—(Night Sale) Lettow Bros., Alden & Iowa Falls. Sale at Iowa Falls, Ia.
Oct. 6—(Night Sale) Emery Reimenschneider, Pierson, Ia.
Oct. 7—O. W. Jones & Son, Ute, Ia.
Oct. 8—(Night Sale) John Volk & Sons, Battle Creek, Nebr.
Oct. 10—(Night Sale) Keith Robertson, Columbus Jct., Ia.
Oct. 11—(Night Sale) Dale McGraw, Pleasantville, Ia.
Oct. 12—(Night sale) Lee Norris, Fremont, Iowa.
Oct. 13—(Night Sale) Fred Goodchild & Sons, Mallard, Ia.
Oct. 17—(Night Sale) Hardesty Hampshire Farms, Corning, Ia.
Oct. 19—Harry Knabe, Nehawka, Nebr.
Oct. 21—(Night Sale) Daggett & Soorholtz, Sale at (Marshalltown, Ia.
Oct. 22—(Night Sale) Cecil Wilson, Lenox, Ia.
Oct. 24—(Night Sale) Fred Michaelsen, Ida Grove, Ia.
Oct. 25—(Night Sale) Lawrence Putney, Gladbrook, Ia.
Oct. 26—(Night Sale) Evertt Maahs, Walton, Nebr.
Oct. 29—(Night Sale) El-Jon Farms, Rose Hill, Ia.

LANDRACE HOGS

Aug. 29—(Night Sale) Iowa Landrace Breeders Assn., Boone, Iowa. Howard O. Koch, Secy.

POLAND CHINAS

Sept. 21—Louis Ruess & Sons, West Liberty, Iowa.
Oct. 6—(Night sale) Eugene Dugan & Sons, Storm Lake, Iowa.
Oct. 14—Helgens Bros., Monticello, Iowa.

TAMWORTHS

Sept. 9—Propst & Piper, R. 3, Iowa City, Iowa.
Sept. 10—Iowa Tamworth Association, Waterloo, Iowa. T. H. Bowers, Secy., Malcom, Iowa.
Sept. 12—(Night Sale) Floyd Crest Farm, Walter Kruse, Sheldon, Iowa.
Sept. 19—J. H. Jones, Ainsworth, Iowa.
Sept. 26—(Night sale) Lee Wimmer, Wisner, Nebr.
Sept. 29—Paul Leaming, Polk City, Iowa. Sale at Ankeny, Iowa.
Sept. 30—Oct. 1—National Type Conference Show & Sale, Cedar Rapids, Iowa.
Oct. 14—(Night sale) Charles F. Brerman, Dakota City, Nebr.

YORKSHIRES

Sept. 1—(Night sale) Orville Lowe, Waukee, Iowa. Sale at Ankeny, Iowa.
Sept. 21—(Night sale) Henderson Farm, Coin, Iowa.
Sept. 29—(Night sale) Merritt Cook, Nemaha, Iowa. Sale at Spencer, Iowa.
Oct. 5—(Night sale) F. L. Jackson & Sons, Lytton, Iowa.
Oct. 6—(Night sale) Eugene Dugan & Sons, Storm Lake, Iowa.
Oct. 8—(Night sale) Leo M. Rigler & Sons, Guthrie Center, Iowa.

PONY SALE

Sept. 18—Stewart & Payne Pony Farm, Yankton, So. Dak.

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J. E. HALSEY, 1912 Grand Ave., Des Moines. Phone: Office 3-6181; Res. 7-3645.
THOS. W. SHERLOCK, Box 3, Oxford, Iowa. Phone 125.
ARCH STONE, 1912 Grand Ave., Des Moines. Phone: Office 3-6181; Res. 9-6995.

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The only herd backed by 17 years performance testing.
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1½ Million pigs sired by
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We have best quality boars to offer the year around. Our boars will contribute **HYBRID** vigor, stronger pigs, better mothers, faster gain, on less feed per **100 lbs.** of gain. Larger litters raised to market, and a solid **MEAT TYPE** carcass. Save **$50** to **$75** per boar and buy direct. No salesman's commission to pay. Our strains are exclusive. All animals guaranteed to be clean and breeders.

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HERE'S PROOF: Over 2 million pigs sired by Wilson Hybrid Boars—800 customers—8 years continuous increase in sales. Vaccinated for Cholera and Erysipelas, blood tested. Guaranteed breeders. Free delivery. Write for free literature. Dealership available.

WILSON HYBRID HOG ASSN., Harlan, Iowa

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Choice registered **MEAT-TYPE** Boars, well-grown, pleasing quality. Double treated.
PRICED TO SELL.
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AMERICAN LANDRACE

Iowa State College foundation stock since 1948
FOR IMMEDIATE SALE

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200 Purebred
LANDRACE BRED GILTS

At our coming winter bred sow sales. These will be Production-bred **IOWA** Gilts. Some will be mated to our top **IMPORTED** Boars. These individual herds now offer **160** Spring Boars at **REASONABLE** prices.

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Breeding Stock. Reigstered **DANISH, NORWEGIAN,** and **SWEEDISH** strains. Sure way to change lard hogs to **MEAT** Animals. Accredited Brucellosis Free.
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BREEDING STOCK
Herd inspection invited
Brood Sows, Gilts and **Boars** now available
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REG. AMERICAN LANDRACE BOARS AND GILTS
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Choice Purebred Boars and Gilts offered. Rich breeding, splendid quality, ideal type. Reasonable. Brucellosis Accredited Herd. (Farm 2 miles N. Luther, 3 miles W.)
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Will be happy to visit with you at **STATE FAIR** and show you my **QUALITY TAMWORTHS. Sale, Monday, Sept. 19, 1:00 P. M., at Farm.**
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Choice, large boars. Long, easy-feeders. Genuine **MEAT-TYPE.** From top prize-winning herd National Barrow Show 1954. Guaranteed to please.
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Choice registered boars for sale by **MODERN LAD,** the $800 top boar in Doubler sale. Out of sows by **EXCELSIOR,** 1954 Nebraska Grand Champion. They have great length, size and type . . . my finest yet. Reasonable. Phone 263 W.
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Choice with size by Champion National Barrow Show and 1953 Minn. Jr. Champ. Gilts bred for Aug. and Sept. farrow, mated to the 2 prize winning herd boars. Good young boars. New blood. Vac. and Guaranteed. Farm 1½ E. and ¼ S.
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BREEDERS ASSOCIATION

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REASONABLE.
(Farm 7 miles N. E.)
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Dependable **KenRu** Quality Sheep. Choice yearling **Rams** and Ewes for sales. Act now.

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WEST LIBERTY, IOWA
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Choice registered **RAMS** and **EWES**. Use a **CHEVIOT RAM** on grade **EWES** to produce Market-Topping, Quality Lambs.
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Notice—Unsatisfactory dogs must be returned within time specified by advertiser. Buyer always pays express charges (both ways if dog is returned) unless advertiser states in advertisement that he will do so.

Purebred Border Collies English Shepherds America's most useful dogs. Puppies all ages. Both sexes. Choice colors. Faithful workers. Satisfaction guaranteed.
We breed and sell our own stock.
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GENUINE ENGLISH SHEPHERD PUPS
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Guaranteed heelers. Year's trial, training instructions. Males, females or spayed females.
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Choice pups raised from natural heelers. Guaranteed satisfaction. Training instructions. Some partly trained.
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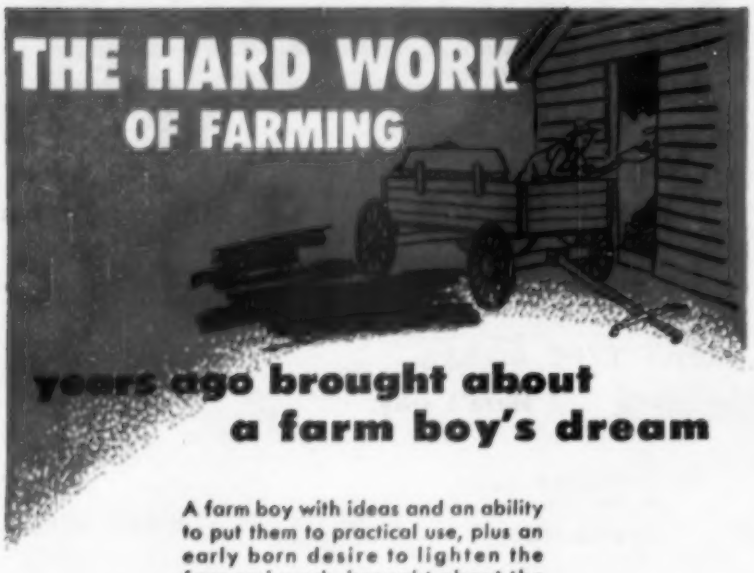

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THE ORIGINAL
KELLY RYAN
Trailaway
PORTABLE FARM ELEVATOR
COPIED BY MANY . . .
EQUALLED BY NONE!

LOOK FOR THE BRIGHT YELLOW ELEVATORS . . .
you see them everywhere you go!

60′
56′
52′
48′
44′
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36′
32′
28′
24′
SIZES

The Kelly Ryan Trailaway is a heavy-duty double-chain elevator that will handle huge quantities of ear corn, small grain or baled hay. It's so portable that one man can move it and set it up for operation in minutes, and it will tow at highway speeds. Powered by electric or gas engine, P-T-O, or speed jack and belt.

COMPLETE WITH TIRES, TUBES, HOPPER AND SPOUT
32′ SIZE
$316.00
24′ SIZE 247.50
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SELF-UNLOADING
WAGONS
4′ x 10′ STEEL BOX FLARED TO 6′

Medium or large capacity, flared steel or straight wood sides, single or tandem axle or 4 wheel running gear.

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THE SUPER-WIDE
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Compare prices before buying.
24′ TO 60′ SIZES

Built on the same principle, with the same quality, as the famous Trailaway. Takes bales laying flat.

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SEE YOUR DEALER
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Snapper unit turns self-propelled combine into picker-sheller. Designed to be used with corn drying unit. Early picking with the converted combine saves losses from fallen ears. And shelled corn can be stored in half the space required for ear corn. Announced by Massey-Harris-Ferguson, Inc.

Mechanical feeder saves cattle feeding labor. Can be operated with one and one-half horsepower motor. Feed distribution controlled by opening or closing slots. Made to operate with A. O. Smith Harvestore but can be used with any type of storage structure. Made by A. O. Smith Corporation.

Mixing ball is said to mix, blend, beat and aerate liquids and powders. You simply drop the magic Mix-Rite into a glass, add ingredients to be mixed, cap the container and shake. Ball is made of aluminum and said to be easy to clean. Product of Kewanee Rite Products.

Dresser-Dor is new answer to the home storage problem. Unit is designed to be attached to back of closet or other doors. It measures 48 inches high, 19 wide and four and three-fourths deep. Comes with either mirror and tie rack or six full-length shelves. Offered by Arned Manufacturing Co.

Big calf crop is being raised this year. And calves will be in high favor with cattle feeders because of the prospect of low margins between feeder cattle and fat cattle.

What's Ahead...

PROSPECT FOR BUMPER crops of feed grains has not changed. Corn crop in western Corn Belt states was hurt by heat and drouth in July. But improvement in eastern Corn Belt states more than offset the damage.

Homer Hush

It's possible that weather damage since August 1 cut the crop below the August estimate of 3.5 billion bushels. But it's quite certain that the corn crop will still be second largest of record.

GRAIN SORGHUM for livestock feed this year will exceed all former records. Oats and barley production hit record totals.

Total feed available per livestock unit this year will be higher than ever before despite big increases in livestock numbers. The result will be further stimulation of livestock production.

YOU MAY HAVE thought the soybean market oversupplied last year with a crop of 343 million bushels. This year's crop was estimated August 1 at 420 million bushels. Excess over last year is 77 million bushels. Excess over the 10-year average is 160 million bushels.

HOW MUCH will corn and bean prices go below support levels on the basis of the August crop report? Corn loan will be $1.58 national basis, and bean loans $2.04.

On corn, there's little reason to change the estimate that "free corn" will sell at $1.10 or less this winter. About half of the farmers are not in compliance with acreage allotments and can't seal corn. So there'll be a lot of corn that has to be sold on the market.

The bean situation is a little different. All beans are eligible to be sealed. Storage is a smaller problem. Bean prices under $1.90 would seem unlikely. At lower prices, beans would go under loans to such an extent that free supplies would be limited.

WHAT STATES of the Corn Belt will have less corn because of the July drouth and heat?

From July 1 to August 1, the Iowa corn crop estimate went down from 620 to 599 million bushels. Per acre yields were reduced from 58 to 56. Last year's Iowa crop was 540 million bushels.

Nebraska yields were reduced four bushels in August, Kansas down seven bushels, South Dakota down two.

GENERAL BUSINESS and employment conditions are favorable for consumption of big farm production coming up. Compared with one year ago, employment and hourly earnings of workers are both up three percent. Weekly earnings of workers are up seven percent. Industrial production is up 10 percent.

However, further growth of the boom is unlikely. Government has moved to increase discount rates. Banks are being questioned about consumer credit. Farmers can't expect consumption to take prospective production without more price troubles.

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Each year, more and more Iowa farmers are finding that their best corn is CORNHUSKER! Here's why:

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- CORNHUSKER Hybrids produce extra good yields of high-quality corn. *In the 1954 Iowa Yield Tests, CORNHUSKER 3X1 and 3X2 placed FIRST and SECOND in District 7; 3X1 placed FIRST in District 11.*

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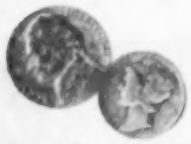
SAVE  15 CENTS or more on every dollar!

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